harman/kardon

DVD5 FIVE DISC DVD/CD CHANGER

SERVICE MANUAL



CONTENTS

PRECAUTIONS1	TRAY/CAROUSEL PARTS LEGEND	22
ESD WARNING3	BLOCK DIAGRAM	23
SPECIFICATIONS4	POWER SUPPLY SCHEMATIC-rev1	24
DETAILED SPECIFICATIONS5	POWER SUPPLY PARTS LIST rev1	25
FRONT PANEL CONTROLS7	POWER SUPPLY SCHEMATIC-rev2	27
NFORMATION DISPLAY8	POWER SUPPLY PARTS LIST rev2	28
REAR PANEL CONNECTIONS9	BULLETIN HK2002-05	33
REMOTE CONTROL FUNCTIONS10	BULLETIN HK2003-01	34
NSTALLATION/CONNECTIONS12	ELECTRICAL PARTS LIST	39
FROUBLESHOOTING GUIDE16	IC BLOCK DIAGRAMS	49
DVD5 REVISION17	P.C. BOARDS	69
GENERAL UNIT EXPLODED VIEW (120V)18	SCHEMATIC DIAGRAMS	77
GENERAL UNIT EXPLODED VIEW (230V)19	SCHEMATIC DIAGRAMS (230v)	101
MECHANICAL PARTS LIST20	PACKING MATERIALS	107
TDAV/CADOLISEL EYDLODED V/IEW/ 21		

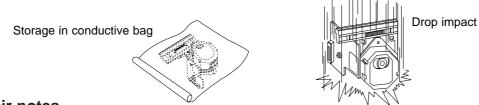
harman/kardon, Inc. 250 Crossways Park Dr. Woodbury, New York 11797

SERVICING PRECAUTIONS

NOTES REGARDING HANDLING OF THE PICK-UP

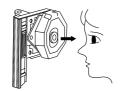
1. Notes for transport and storage

- 1) The pick-up should always be left in its conductive bag until immediately prior to use.
- 2) The pick-up should never be subjected to external pressure or impact.



2. Repair notes

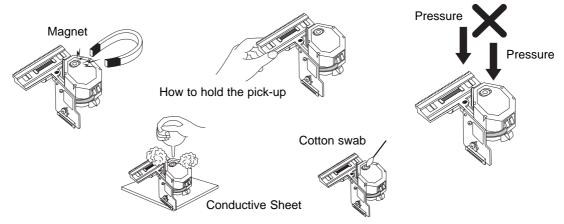
- 1) The pick-up incorporates a strong magnet, and so should never be brought close to magnetic materials.
- 2) The pick-up should always be handled correctly and carefully, taking care to avoid external pressure and impact. If it is subjected to strong pressure or impact, the result may be an operational malfunction and/or damage to the printed-circuit board.
- 3) Each and every pick-up is already individually adjusted to a high degree of precision, and for that reason the adjustment point and installation screws should absolutely never be touched.
- 4) Laser beams may damage the eyes! Absolutely never permit laser beams to enter the eyes! Also NEVER switch ON the power to the laser output part (lens, etc.) of the pick-up if it is damaged.



NEVER look directly at the laser beam, and don't let contact fingers or other exposed skin.

5) Cleaning the lens surface

If there is dust on the lens surface, the dust should be cleaned away by using an air bush (such as used for camera lens). The lens is held by a delicate spring. When cleaning the lens surface, therefore, a cotton swab should be used, taking care not to distort this.



6) Never attempt to disassemble the pick-up.

Spring by excess pressure. If the lens is extremely dirty, apply isopropyl alcohol to the cotton swab. (Do not use any other liquid cleaners, because they will damage the lens.) Take care not to use too much of this alcohol on the swab, and do not allow the alcohol to get inside the pick-up.

NOTES REGARDING COMPACT DISC PLAYER REPAIRS

1. Preparations

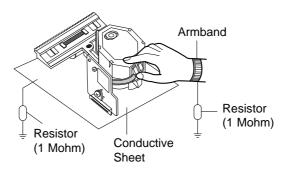
1) Compact disc players incorporate a great many ICs as well as the pick-up (laser diode). These components are sensitive to, and easily affected by, static electricity. If such static electricity is high voltage, components can be damaged, and for that reason components should be handled with care.

2) The pick-up is composed of many optical components and other high-precision components. Care must be taken, therefore, to avoid repair or storage where the temperature of humidity is high, where strong magnetism is present, or where there is excessive dust.

2. Notes for repair

- 1) Before replacing a component part, first disconnect the power supply lead wire from the unit
- 2) All equipment, measuring instruments and tools must be grounded.
- 3) The workbench should be covered with a conductive sheet and grounded.

 When removing the laser pick-up from its conductive bag, do not place the pick-up on the bag. (This is because there is the possibility of damage by static electricity.)
- 4) To prevent AC leakage, the metal part of the soldering iron should be grounded.
- 5) Workers should be grounded by an armband (1M Ω)
- 6) Care should be taken not to permit the laser pick-up to come in contact with clothing, in order to prevent static electricity changes in the clothing to escape from the armband.
- 7) The laser beam from the pick-up should NEVER be directly facing the eyes or bare skin.



ESD PRECAUTIONS

Electrostatically Sensitive Devices (ESD)

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off
 any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a
 commercially available discharging wrist strap device, which should be removed for potential shock reasons
 prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
- 6. Do not remove a replacement ESD device from its protective package until immediately before you are ready to install it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
- 7. Immediately before removing the protective material from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will by installed.

CAUTION: BE SURE NO POWER IS APPLIED TO THE CHASSIS OR CIRCUIT, AND OBSERVE ALL OTHER SAFETY PRECAUTIONS.

8. Minimize bodily motions when handing unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

Technical Specifications

Applicable Discs: 5-inch (12cm) or 3-inch (8cm) DVD-Movie, CD or CD-RW discs

Region 1 DVD-Movie discs

DVD: Single Side/Single Layer, Single Side/Dual Layer, Dual Side/Dual Layer

Linear PCM, Dolby Digital or DTS Audio

Video Signal System: NTSC

Composite Video Output: 1V p-p/75 Ω , sync, negative polarity

S Video Output: Y/Luminance: 1V p-p/75 Ω , sync, negative polarity

C/Chrominance: 0.286V p-p

Component Video Outputs: Y: 1V p-p/75 Ω , sync, negative polarity

Pr: 0.648V p-p/75 Ω Pb: 0.648V p-p/75 Ω

Analog Audio Output: 2.0V RMS ± 0.2 Coaxial Digital Audio Output: 0.5V p-p/75 Ω Optical Digital Audio Output: 1.6V p-p

Frequency Response: 4Hz – 22kHz ±0.5dB (48kHz sampling)

Dynamic Range: DVD: 105dB (20-bit)

CD: 100dB

Channel Separation: >90dB

THD: DVD: 0.0035%

CD: 0.0035%

Signal to Noise: >100dB

Wow & Flutter: Below measurable limits Headphone Output: 1.2V RMS @ 32 Ω AC Power: 120V/60Hz

Power Consumption: 25 watts

Dimensions (H x W x D): 5.1" x 17.3" x 17.2"

(130mm x 440mm x 437mm)

Weight: 15.4 lbs/7kg

Depth measurement includes knobs and buttons. Height measurement includes feet and chassis. All specifications subject to change without notice.

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 Part #J9020000300X

DVD SPECIFICATIONS(PCM)

1. Audio * Test Disc : YEDS 7(Sony)

Iten	٦	Spec	Test Conditions	Test Track
Analog	Output Level	2.0V ± 0.2Vrms	Ref. : 1KHz, OdB	1
	Frequency Response	0±0.5dB	Ref. : 1KHz, 0dB 20Hz ~ 20KHz	2 ~ 13
	S/N	.100dB	Ref. : 1KHz, OdB JIA A Filter	23
	THD	. 0.005% . 0.06%	Ref. : 1KHz, OdB(20KHzLPF Ref. :20KHz,OdB(80kHzLPF)	1 13
	Dynamic Range	.90dB	Ref. : 1KHz, -60dB JIA A Filter	20
	CH. Separation	.90dB	Ref. : 1KHz, OdB JIA A Filter	30, 34
H/P	Output Level(32.)	1.2 ± 0.3Vrms	Ref. : 1KHz, 0dB	1
Coaxial	Output Level (75.)	$0.5 \pm 0.05V(p-p)$		1

2. Video(75ohm Terminated)

* Test Disc : Navigation Vol 1, (BLUE DISC (1537163B))

* VM700T

Iten	n	Spec	Test Conditions	Test Track
C-Video	Output Level	1.0V ± 0.15(p-p)	100% Flat	1 - 1 -7
	·			(VIDEO SEC.BASIC)
S - Video	(Y)Output Level	1.0V ± 0.15(p-p)	100% Fiat	1 - 1 -7
				(VIDEO SEC.BASIC)
	(C)Output Level	0.286V(p-p) ± 10%	75% Color Bar	1 - 1 -1
				(VIDEO SEC.BASIC)
Component Video	(Cb)Output Level	$0.7V(p-p) \pm 10\%$	100% Color Bar	1 - 1 -1
				(VIDEO SEC.BASIC)
	(Cr)Output Level	$0.7V(p-p) \pm 10\%$	100% Color Bar	1 - 1 -1
				(VIDEO SEC.BASIC)
	(Y)Output Level	1.0V ± 0.15(p−p)	100% Fiat	1 – 1 –7
				(VIDEO SEC.BASIC)
C-Video	Frequency Response	0±2.5dB	40 IRE	1 -1 - 8 - 9
	4		Multiburst	(VIDEO SEC.BASIC)
S - Video	_		4.2MHz±0.5MHz	
Component Video	,			
C-Video	Video S/N	.55dB	50% Flat	1 - 1 - 6
S - Video			BPF : 100kHz ~ 4.2MHz	(VIDEO SEC.BASIC)
Component Video			WTD : Off, SC TRAP On	
C-Video	Color S/N AM/PM	.55dB	100% Color	1 - 1 - 8 -8
			HPF: 100Hz	(VIDEO SEC.BASIC)
S – Video	Color S/N AM/PM		LPF: 500KHz	
C-Video	Color Burst Error	±120Hz	75% Color Bar	1 – 1 – 1
S - Video				(VIDEO SEC.BASIC)

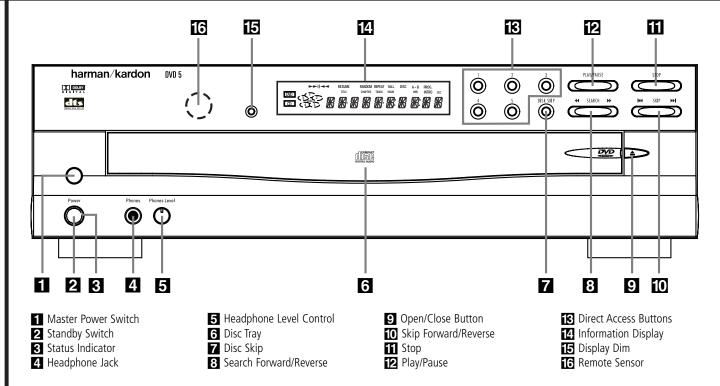
DVD5 SPECIFICATIONS(DOLBY DIGITAL)

1. Audio

1. Audio	,								
	* Test Di	isc : DV	D-TEST1						
Item			Spec		Test	Conditions	Test Title		
Analog	Output	Level	2.0V 0.2Vri		Ref.:	1KHz, 0dB	28		
	Frequ Respo		0±0.5	dB	Ref	: Sweep	19		
						z ~ 20KHz 0dBFS	•	-	
	S/N		100dB		Ref. : 1	KHz, 0dBFS	28 80		
					N	o Signal A A Filter			
	Dyna Ran		100dB		Ref. : 200Hz, - 60dBFS 20bit		13		
					JIF	A A Filter			
	THD		0.005%			KHz, 0dBFS : 20KHz	28		
	OLL Corr		0040		D-4 : 4	KIL OADEO	100.07		
	CH. Sep	aration	90dB		1	KHz, 0dBFS A A Filter	26, 27		

PLAYABILITY							
ITEM	CD	TEST DISC	DVD	TEST DISC			
11 LIVI	SPEC	1201 2100	SPEC	1201 0100			
ECCENTRICITY	±140	TCD-712	±100	TDV-512			
VERTICAL DEVIATION	0.8	TCD-731	8.0	TDV-532			
INTERRUPTION	0.6	TCD-725	0.6	TDV-521			
BLACK DOT	0.6	TCD-725	0.6	TDV-525			
FINGER PRINT	65	TCD-725	65	TDV-525			

Front Panel Controls



- Master Power Switch: Press this switch to apply power to the DVD 5. When the unit is first turned on, the Status Indicator ③ will turn green. Once the unit has been turned on with this switch, it may be operated from either the front panel or remote control. Press the switch again to turn the unit completely off.
- 2 Standby Switch: Press the button once to turn the DVD 5 on, press it again to put the unit in the Standby mode. Note that in order for this switch to operate, the Main Power Switch must be pressed in so that it is in the

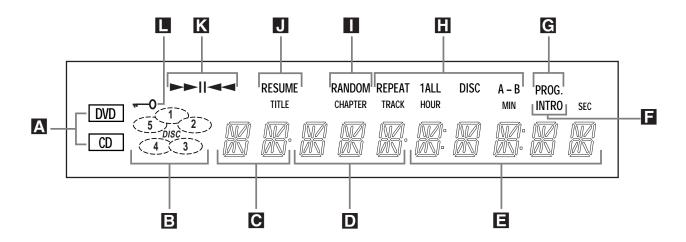
ON position.

- **3 Status Indicator**: When the DVD 5 is in the On mode, this indicator will glow green. When the unit has been placed in the Standby mode by pressing the **Power-Off** button on the remote, the indicator will glow amber, indicating that the unit is still connected to the AC main supply and is ready to be turned on from the remote control.
- **4** Headphone Jack: Connect standard headphones to this jack for private listening.
- **5** Headphone Level Control: Turn this control to adjust the volume level to the headphones. Note that the use of this control will not change the analog output levels at the rear panel audio outputs.

- **6** Disc Tray: This tray holds as many as five DVD or CD discs that can be played one at a time in the DVD 5.
- **Disc Skip:** Press this button to change the disc being played. Each press of the button will move the tray forward to the next occupied position in the tray. Note that the unit will skip over the empty disc positions.
- **3** Search Forward/Reverse: Press this button to move forward or backward through a CD or DVD at one of four speeds. Each press and release will increase the search speed, as indicated in the on-screen display. Once you have selected the desired speed, release the button and the disc will continue to search at fast speed. To resume normal playback speed, press the play button.
- **9** Open/Close Button: Press this button to open or close the Disc Tray **6**.
- **O Skip Forward/Reverse:** Press this button to move forward or backward through the music tracks on a CD disc or the chapters on a DVD disc.
- **Stop:** Press this button once to place the disc in the Resume mode, which means that playback will stop, but as long as the tray is not opened or the disc changed, DVD playback will continue from the same point on the disc when the Play Button is pressed again. Resume will

- also work if the unit was turned off. To stop a disc and have play start from the beginning, press the button twice.
- [2] Play/Pause: Press this button to momentarily pause playback. To resume playback, press the button again. If a DVD is playing, action will freeze and a still picture will be displayed when the button is pressed.
- Direct Access Buttons: Press one of these buttons to play any of up to five discs loaded in the Disc Tray.
- **14 Information Display:** This display contains a variety of indicators that provide information about the status of the DVD 5 and the disc currently playing.
- **13 Display Dim**: Press this button to adjust the brightness of the Information Display by 50% or to turn the display off completely in the following order: FULL BRIGHTNESS → HALF BRIGHTNESS → OFF → FULL BRIGHTNESS.
- **16 Remote Sensor:** The sensor that receives the infrared commands from the remote control is behind this area. Do not cover or obscure this part of the front panel in order to avoid a malfunction with the remote.

Front Panel Information Display



- A Disc Type Indicators
- **B** Disc-Number Indicators
- **C** Title Indicators
- **D** Chapter/Track Number Indicators
- **E** Program Time Indicators

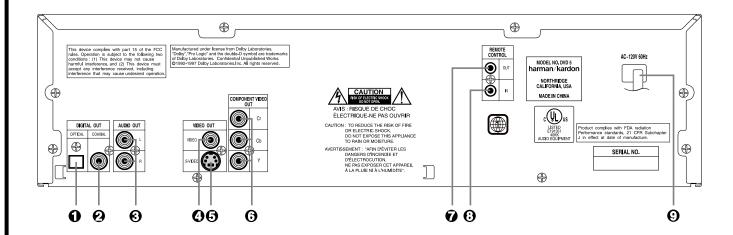
disc currently being played.

- A Disc Type Indicators: The DVD or CD indicator will illuminate to show the type of
- Disc-Number Indicators: When the DVD 5 has sensed that a disc is loaded in one or more of the tray positions, the number inside the corresponding disc icon will illuminate. The disc position that is currently playing will flash. Note that if a disc is added to, or removed from, the tray while a disc is playing, the indicator will not show the change until all discs are cycled.
- Title Indicators: These two positions in the display will show the current title number when a DVD disc is playing.
- **D** Chapter/Track Number Indicators: When a DVD disc is playing, these two positions in the display will show the current chapter. When a CD disc is playing they will show the current track number.
- Program Time Indicators: These positions in the indicator will show the running time of a DVD in play. When a CD is playing, these indicators will show the current track time, time remaining in the current track, or the total remaining time on the disc.

- Intro Indicator
- **G** Program Indicator
- Repeat Indicators
- Random Indicator
- **J** Resume Indicator
- **NOTE:** The Program Time Indicators will also display text messages about the DVD 5's status, including **Reading** when a disc is loading, **Bye** when the unit is turned off, and **Disc Error** when a disc not compatible with the DVD 5 is put into the play position.
- **Intro Indicator:** This indicator lights when the Intro Scan function is active.
- **©** Program Indicator: This indicator lights when the programming functions are in use.
- Repeat Indicators: These indicators light when any of the Repeat functions are in use.
- Random Indicator: This indicator lights when the unit is in the Random Play mode.
- Resume Indicator: This indicator lights when the Stop button has been pressed once to put the unit in the Resume mode.
- **▼ Playback-Mode Indicators:** These indicators light to show the current playback mode:
- Lights when a disc is playing in the normal mode

- K Playback-Mode Indicators
- Parental Lock Indicator
- ▶ Lights when the disc is in the Fast Search Forward mode. For DVDs, When both triangles glow steadily, the disc plays at 2x normal speed. When the right triangle is flashing, the disc plays at 4x normal speed. When the left triangle is flashing, the disc plays at 8x normal speed. When both triangles are flashing, the disc plays at 16x normal speed. For CDs, only the first three Fast Search modes are available.
- ▶ II Lights when the disc is paused
- Lights when the disc is in the Fast Search Reverse mode. For DVDs, When both triangles glow steadily, the disc plays at 2x normal speed. When the left triangle is flashing, the disc plays at 4x normal speed. When the right triangle is playing, the disc plays at 8x normal speed. When both triangles are flashing, the disc plays at 16x normal speed. For CDs, only the first three Fast Search modes are available.
- Parental Lock Indicator: This indicator lights when the parental-lock system is engaged in order to prevent anyone from changing the rating level without a code.

Rear Panel Connections



- 1 Optical Digital Output
- 2 Coaxial Digital Output
- Analog Audio Outputs

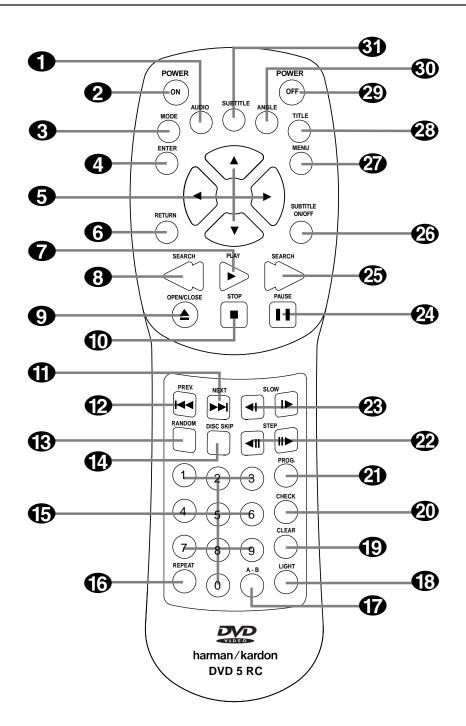
- 4 Composite Video Output
- **6** S-Video Output
- **6** Component Video Outputs
- Remote Control Output
- Remote Control Input
- AC Power Cord

- Optical Digital Output: Connect this jack to the optical digital input of an A/V receiver or surround processor for Dolby Digital, DTS or PCM audio playback.
- **2** Coaxial Digital Output: Connect this jack to the coaxial digital input of an A/V receiver or surround processor for Dolby Digital, DTS or PCM audio playback.
- **NOTE**: The coaxial digital output should only be connected to a digital input. Even though it is the same RCA-type connector as standard analog audio connections, DO NOT connect it to a conventional analog input jack.
- **3** Analog Audio Outputs: Connect these jacks to an audio input on an A/V receiver or surround processor for analog audio playback.
- **②** Composite Video Output: Connect this jack to the video input on a television or video projector, or to a video input on an A/V receiver or processor if you are using that type of device for video input switching.
- **S-Video Output:** Connect this jack to the S-Video input on a television or video projector, or to an S-Video input on an A/V receiver or processor if you are using that type of device for S-Video input switching.

- **(3)** Component Video Outputs: If your TV or video projector has component video inputs, you may connect these output jacks to the set for the highest video quality available. Note that the component video inputs may be labeled as Y/Pr/Pb or Y/Cr/Cb but, for connection purposes, they are the same. The outputs of these jacks should NOT be connected to a standard composite video input.
- Remote Control Output: Connect this jack to the infrared (IR) input jack of another compatible Harman Kardon remote controlled product to have the built-in Remote Sensor on the DVD 5 provide IR signals to other compatible products.
- Remote Control Input: Connect the output of a remote infrared sensor, or the remote control output of another compatible Harman Kardon product, to this jack. This will enable the remote control to operate even when the front panel Remote Sensor si blocked. This jack may also be used with compatible IR remote control-based automation systems.
- **②** AC Power Cord: Connect this plug to an AC outlet. If the outlet is controlled by a switch, make certain that it is in the ON position.

Remote Control Functions

- Audio Button
- 2 Power-On Button
- 3 Mode Button
- 4 Enter Button
- 6 Navigation Buttons
- **6** Return Button
- Play Button
- **8** Reverse Search Button
- Open/Close Button
- Stop Button
- Next Button
- Previous Button
- Random Button
- Disc-Skip Button
- 1 Numeric Keys
- **16** Repeat Button
- Repeat A-B Button
- 13 Light Button
- (P) Clear Button
- **20** Check Button
- 2 Program Button
- Step Buttons
- Slow-Play Buttons
- **24** Pause Button
- **25** Forward Search Button
- 26 Subtitle On/Off Button
- 2 Menu Button
- Title Button
- 29 Power-Off Button
- Angle Button
- Subtitle Button



- **1** Audio Button: When a DVD is playing, press this button to select from the available audio tracks or languages on the disc.
- **2 Power-On Button:** Press this button to turn the DVD 5 on. Note that in order for this control to function, the Front Panel **Main Power Switch**
- **1** must first be pressed in, so that the unit is in the Standby mode.
- **3** Mode Button: When a disc is playing, pressing the button will display the Status Banner which contains information about the disc and enables you to change the functions.
- **4** Enter Button: Press this button to select the item that is highlighted in the DVD 5's Status Banner or in the on-screen menu displayed by a DVD disc.

Remote Control Functions

- Navigation Buttons: Press these buttons to change or select an item from the DVD 5's Status Banner or in the on-screen menu displayed by a DVD disc.
- **6 Return Button**: When viewing the menu display from a DVD disc, press this button to return to the previous menu screen.
- Play Button: Press this button to begin playback. If the disc tray drawer is open, it will automatically close when the button is pushed. Pressing the Play button when the unit is in the Standby mode will turn the unit on and begin playback of the last disc in use.
- **8** Reverse Search: Press this button to move backward through a CD or DVD at one of four speeds. Each press and release will increase the search speed, in the following order: R. Search x 2 → R. Search x 4 → R. Search x 8 → R. Search x 16. Once you have selected the desired speed, release the button, and the disc will continue to search at fast speed. To resume normal playback, press the **Play Button** ?
- **9** Open/Close Button: Press this button to open or close the disc tray drawer. If the drawer is opened while a disc is still playing, playback will continue and discs not in use may be changed. If the drawer is opened while the unit is stopped, the disc that was playing will be presented at the front-center position of the tray.
- **(1) Stop Button:** Press this button once to place the disc in the Resume mode, which means that playback will stop; as long as the tray is not opened or the disc changed, DVD playback will continue from the same point on the disc when the **Play Button (7)** is pressed again. Resume will also work if the unit is turned off. To totally stop a disc, press the button twice.
- **(iii)** Next Button: Press this button to move forward through the music tracks on a CD disc or the chapters on a DVD disc.
- Previous Button: Press this button to move backward through the music tracks on a CD disc or the chapters on a DVD disc.
- **(B)** Random Button: Press this button to begin the playback of all tracks on a disc in random order.
- **Disc-Skip Button**: Press this button to move to the next available disc in the tray.

- Numeric Keys: Press these keys to enter data for sequential programming, to enter or change the access password for parental control, to enter a language code, or to respond to menu options presented by a disc.
- Repeat Button: Press this button to select a Repeat-Play mode. Each press of the button shows the choice selected in either the on-screen Status Banner display or in the Repeat Indicators.
- Repeat A-B Button: Press this button once to begin the selection of a portion of a disc to be repeated. Press it again to choose the end point of the repeat-play selection.
- **(B) Light Button:** Press this button to activate the remote's backlighting so that the keys are visible in low-light conditions.
- **(D)** Clear Button: Press this button to remove the Status Banner or other displays from your video screen. This button is also used to clear items from Programmed Play lists. (See page 29.)
- check Button: When a CD is playing, press this button to check the status of the current disc via the on-screen display. This button is also used to verify the contents of a programmed play list via the front panel Information Display. (See page 28 for more information about programming the DVD 5.)
- Program Button: When the unit is stopped, press this button to display the program menu and enter a programmed play sequence. When a disc is playing, press this button to switch between normal play and programmed playback.
- **22 Step Buttons:** When a DVD disc is playing, press these buttons to move forward or backward one frame at a time. Press the **Play Button 7**/**12** to resume normal play. These buttons do not function when a CD is playing.
- Slow-Play Buttons: When a DVD disc is playing, press these buttons to move forward or backward through the disc in slow speed. Each press of these buttons changes the slow-play speed in the following order: 1/16 Normal Speed → 1/8 Normal Speed → 1/4 Normal Speed → 1/2 Normal Speed.

To resume normal play, press the **Play Button** 7/12. These buttons do not function when a CD is playing.

- Pause Button: Press this button to stop the disc in use. To resume playback, either press the Pause Button again or press the Play Button 7/12.
- Forward Search: Press this button to move forward through a CD or DVD at one of four speeds. Each press and release will increase the search speed, in the following order: F. Search x 2 → F. Search x 4 → F. Search x 8 → F. Search x 16. Once you have selected the desired speed, release the button and the disc will continue to search at fast speed. To resume normal playback speed, press the play button.
- Subtitle On/Off Button: When a DVD is playing, press this button to turn the subtitle display on or off.
- Menu Button: This button has two functions. When a DVD disc is playing, press this button to stop the disc playback and display the DVD's main menu screen for the current title. When the unit is stopped, press this button to display the Setup Menu.
- **Title Button:** When a DVD disc is playing, press this button to display the disc's Title Select Menu. If the disc does not offer this function, a symbol (**Ø**) will appear on the screen to indicate that there is only one title on the disc or that the disc does not allow this feature.
- **Power-Off Button:** Press this button to place the unit in the Standby mode.
- Angle Button: When a DVD encoded with multiple-angle information is playing, press this button to change the angle in use. Note that this function is only available on discs that are specially prepared to take advantage of the multiple-angle function, and only for those parts of the disc that are recorded with multiple-angle content. The DVD 5 will display a camera icon on the screen to indicate when this feature is available.
- **3)** Subtitle Button: When a DVD disc is playing, press this button to change the subtitle choice. To actually turn the subtitles on or off, press the Subtitle On/Off Button (2).

Installation and Connections

Installation

Connections will vary, depending on the type of audio and video components used with your DVD 5. However, regardless of the complexity of your system, the installation guidelines on pages 11–14 should always be followed to ensure a safe installation and reliable operation of the product.

Important Note: To prevent possible damage to your speakers or other components in your home entertainment system, we strongly recommend that ALL system components, including the DVD 5, be turned off and unplugged from their AC power source when any connections are made or a new component is installed.

Placement of the DVD 5

Since the laser transport mechanism and carousel tray in the DVD 5 are precision instruments that are designed and manufactured to precise tolerances, they are subject to interference from vibration. To minimize the possibility of skipping during playback, it is recommended that the unit be placed on a level, solid, vibration-free surface.

When installing the DVD 5 in a cabinet or tight space, always make certain that there is enough room in front of the unit for the disc tray to open fully, and that there is enough space above the unit so that discs may easily be inserted into the spaces in the tray.

As the disc drawer extends out about six inches from the front of the unit when it is open, you should also make certain that there is sufficient clearance in front of the unit to accommodate the disc drawer without it bumping into other objects or getting in the way of anyone walking in front of the unit.

In addition to the safety considerations outlined on page 4, it is also recommended that the DVD 5 not be placed in a location that is subject to direct sunlight or extreme heat or cold, as these conditions may damage the discs used in the player, or the player itself. Note that audio amplifiers or high-power receivers, as well as certain other electronic products, can generate significant heat. For that reason, do not place the DVD 5 directly on top of an amplifier, receiver, or other heat source. Always allow at least one inch of free space on all sides of the DVD 5 as well as around other electronic products to allow for proper ventilation.

Installation Options

The diagrams on pages 12–14 describe the three basic ways to connect the DVD 5 to your system components.

- Option #1: Use this setup if all audio and video connections from the DVD 5 will go directly to a television set or video projector without the use of an A/V receiver or surround processor.
- Option #2: Use this setup if the video connections will go directly to a television set or video projector, but the audio connections will be made to an A/V Receiver or surround processor.
- Option #3: Use this setup if all audio and video connections will be made through an A/V receiver or a surround processor.

Installation and Connections

OPTION 1:

Direct Connections to a Television or Video Projector

This is the simplest installation, as it does not require anything other than a television set. However, note that in this type of system you will not be able to enjoy the benefits of Dolby Digital or DTS discrete playback, as that requires the digital audio processing found in A/V receivers or surround processors. Follow as many of these steps as needed, based on the capabilities of your television:

▲ Connect the left and right Analog Audio Outputs ③ on the DVD 5 to the audio inputs on your television. ▲ Connect the Composite Video Output ④ on the DVD 5 to a video input on your television. Note that composite video connections typically have a yellow center ring for easy identification.

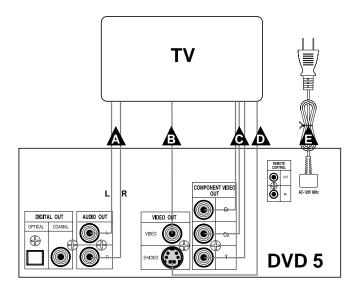
⚠ If your television or projector is equipped with component video inputs, connect the three Component Video Outputs ⑥ on the DVD 5 to the matching component video inputs on your video display.

Connect the S-Video Output **5** on the DVD 5 to an S-Video input on your television.

A Connect the AC power cord to an AC outlet.

Installation Notes and Hints

- If your television has both standard composite video and S-Video inputs, you only need to use one of the two connections. Where possible, we recommend using the S-Video connection due to the higher picture quality.
- Do not connect any of the video outputs of the DVD 5 through a VCR. Due to the use of Macrovision encoding on most DVD discs, connections through the circuitry of a VCR will distort the picture so that it will become unwatchable.
- Note that the volume level for DVD playback may different from the level for TV broadcasts. This is normal and does not indicate a problem with the DVD 5 or your TV set. Simply use the volume control on the TV set to set the desired level.
- Depending on the product and brand, a number of different descriptions are used to label component video connections. You may see them as Y/Pr/Pb, Y/Cr/Cb or Y/R-Y/B-Y. For the purpose of connecting a DVD player, all of these labels are normally identical. The best guide is to connect the component video connections using the green/red/blue color coding of the inner rings of the connection jacks.
- When making connections to a high definition (HDTV) or "digital ready" set, do not connect the component video outputs of the DVD 5 to inputs labeled "HD Component Inputs" unless you have checked with the set's owner's manual to ensure that the HD input is also compatible with standard scan (NTSC) video.



Installation and Connections

OPTION 2:

Direct Connections to a Television or Video Projector with Audio Connections to an A/V Receiver or Surround Processor To hear the benefits of discrete, multichannel digital audio, you will need to use an external Dolby Digital/DTS-capable A/V receiver or surround processor. In this installation, you maintain a direct video connection to your television, but use the audio processing from another device.

Note that step \triangle is not used, as it is for analog audio connections only. This installation starts with step \triangle

⚠ Connect the Composite Video Output ♠ on the DVD 5 to a video input on your television. Note that composite video connections typically have a yellow center ring for easy identification.

▲ If your television or projector is equipped with component video inputs, connect the three Component Video Outputs ⑤ on the DVD 5 to the matching component video inputs on your video display.

▲ Connect the S-Video Output ⑤ on the DVD 5 to an S-Video input on your television.

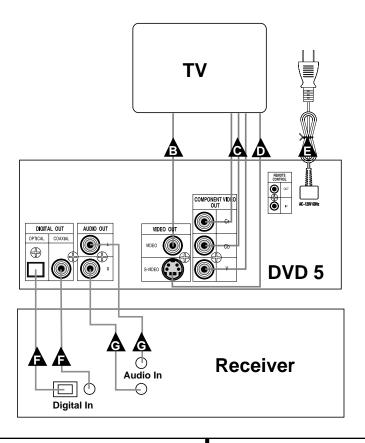
A Connect the AC power cord to an AC outlet.

▲ Connect the left/right Analog Audio Outputs ③ of the DVD 5 to the matching left/right analog inputs on your A/V receiver or surround processor.

Installation Notes and Hints

- Only one type of audio connection is required, either digital or analog. If possible, a digital connection is preferred, as that will enable you to listen to DVD soundtracks with the clarity, definition and channel separation made possible by Dolby Digital and DTS. Follow Step ♠ for digital audio connections. However, if you do not yet have a receiver capable of digital audio processing, you will still benefit from an analog connection so that the receiver may create a multichannel soundfield using Dolby Pro Logic or other matrix decoding. Follow Step ♠ for instructions on analog audio connections.
- If your television has both standard composite video and S-Video inputs, you only need to use one of the two connections. Where possible, we recommend an S-Video connection due to the higher picture quality.
- Do not connect any of the video outputs of the DVD 5 through a VCR. The use of Macrovision encoding on most DVD discs means that most discs will have a distorted picture when connections are made through a VCR

- Note that the volume level for DVD playback may different from the level for other input sources to your receiver. This is normal and does not indicate a problem with the DVD 5 or your receiver. Simply use the volume control on the receiver to set the desired level.
- Depending on the product and brand, a number of different descriptions are used to label component video connections. You may see them as Y/Pr/Pb, Y/Cr/Cb or Y/R-Y/B-Y. For the purposes of connecting a DVD player, all of these labels are normally identical. The best guide is to connect the component video connections using the green/red/blue color coding of the inner rings of the connection jacks.
- When making connections to a high definition (HDTV) or "digital ready" set, do not connect the component video outputs of the DVD 5 to inputs labeled "HD Component Inputs" unless you have checked with the set's owner's manual to ensure that the HD input is also compatible with standard scan (NTSC) video.



Installation and Connections

OPTION 3:

Audio and Video Connections through an A/V Receiver or Surround Processor only If your home entertainment system has other audio/video input sources in addition to the DVD 5, such as a VCR, cable set-top box or satellite receiver, LD player, personal video recorder or HDTV tuner, the most efficient way to manage the various components is to make all audio/video connections through an A/V receiver or surround processor. This simplifies the selection of an input source, and allows many different components to be connected to the same video display and speakers.

Note that steps $\mathbf{A}/\mathbf{A}/\mathbf{A}$ and \mathbf{A} are not used. This installation starts with step \mathbf{A}

A Connect the AC power cord to an AC outlet.

Connect the left/right Analog Audio
Outputs 3 of the DVD 5 to the matching
left/right analog inputs on your A/V receiver or
surround processor.

⚠ Connect the Composite Video Output ② on the DVD 5 to a video input on your receiver or processor. Note that composite video connections typically have a yellow center ring for easy identification.

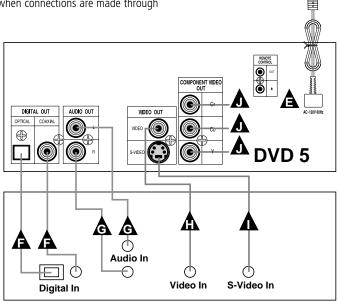
▲ Connect the **S-Video output** ⑤ on the DVD 5 to an S-Video input on your receiver or processor.

with component video inputs, connect the three Component Video Outputs ③ on the DVD 5 to the matching component video inputs on your video display. However, if your receiver or processor has multiple component input switching capability, connect the Component Video Output Jacks ⑤ on the DVD 5 to the matching component video inputs on your receiver, surround processor or video processor.

Installation Notes and Hints

- For this installation, make the connections from the receiver or processor to your video display and speakers as described in the owner's manuals for those products.
- Only one type of audio connection is required, either digital or analog. If possible, a digital connection is preferred as that will enable you to listen to DVD soundtracks with the clarity, definition and channel separation made possible by Dolby Digital and DTS. Follow Step for digital audio connections. However, if you do not yet have a receiver capable of digital audio processing, you will still benefit from an analog connection so that the receiver may create a multichannel soundfield using Dolby ProLogic or other matrix decoding. Follow Step for instructions on analog audio connections.
- If your television has both standard composite video and S-Video inputs, you only need to use one of the two connections. Where possible, we recommend an S-Video connection due to the higher picture quality.
- Do not connect any of the video outputs of the DVD 5 through a VCR. The use of Macrovision encoding on most DVD discs means that most discs will have a distorted picture when connections are made through a VCR.

- Note that the volume level for DVD playback may different from the level for other input sources to your receiver. This is normal and does not indicate a problem with the DVD 5 or your receiver. Simply use the volume control on the receiver to set the desired level.
- Depending on the product and brand, a number of different descriptions are used to label component video connections. You may see them as Y/Pr/Pb, Y/Cr/Cb or Y/R-Y/B-Y. For the purposes of connecting a DVD player, all of these labels are normally identical. The best guide is to connect the component video connections using the green/red/blue color coding of the inner rings of the connection jacks.
- When making connections to a high definition (HDTV) or "digital ready" set, do not connect the component video outputs of the DVD 5 to inputs labeled "HD Component Inputs" unless you have checked with the set's owner's manual to ensure that the HD input is also compatible with standard scan (NTSC) video.



A/V Receiver or Surround Processor

Troubleshooting Guide

TROUBLESHOOTING GUIDE		
SYMPTOM	POSSIBLE CAUSE	SOLUTION
Unit does not turn on	Main Power Switch turned OffNo AC power	 Press in Main Power Switch Check AC power plug and make certain any switched outlet is turned on
Disc does not play	 Disc loaded improperly Incorrect disc type Invalid Region Code Rating is above parental preset 	 Load disc label-side up Check to see that disc is CD, CD-RW or DVD-Movie; other types will not play Use Region 1 disc only Enter password to override or change rating settings
No picture	Intermittent connections Wrong Input	Check all video connections Check input selection of TV or reveiver
No sound	Intermittent connectionsIncorrect digital audio selectionDVD disc is in fast or slow mode	 Check all audio connections Check digital audio settings There is no audio playback on DVD discs during fast or slow modes
Picture is distorted or jumps during fast forward or reverse play	MPEG-2 decoding	It is a normal artifact of DVD playback for pictures to jump or show some distortion during rapid play
Some remote buttons do not operate during DVD play	Function not available for this disc	Some discs do not include all DVD features
The menu is in a foreign language	• Incorrect menu language	Change menu language selection
"Ø" Symbol Appears	Requested function not available at this time	Certain functions may be disabled during passages of a disc
Picture is displayed in the wrong aspect ratio	Incorrect match of aspect ratio settings to disc	Change Aspect Ratio settings
Remote control inoperative	Weak batteriesSensor is blocked	Change both batteriesClear path to sensor or use remote sensor
Disc will not copy to VCR	Macrovision protection	Most DVDs are encoded with Macrovision to prevent copying to VCR

SUBJECT: RESET DVD5 TO FACTORY DEFAULTS, RESETTING PARENTAL LOCK

In Stand-by mode, press SEARCH BACK and SKIP FORWARD buttons on the Front Panel simultaneously for more than 3 seconds.

The FL will then display 8 or 9 digit numbers. Disregard this read out. Reset the unit by pressing the OFF power button on the remote, or pushing the main power button on the unit.

DVD5 REVISIONS

Product Information				
Product:	DVD5			
Serial Number:	Verified on Reliability Qualification unit manufactured in February 2000			

Failure Description

System Setup: --include equipment connected, speakers used, cable connections, etc.

Unit playing *The Man with the Golden Gun*, Special 007 Edition, Digital Coax Output to AVR, Composite Video Out to AVR or Unit playing *the above DVD using*, Analog Audio, Composite Video Out directly to TV.

Failure Mode: --include source (AM/FM, DVD, etc.), surround mode, volume level, and channels affected.

During Chapter 21 of *The Man with the Golden Gun*, Special 007 Edition, at a time of 1:21:23, a brief video pause is seen, and then the audio and video becomes severely distorted. The distortion occurs throughout the remainder of the disc. The problem was also recreated on an engineering sample DVD5.

Analysis

Results:

The DVD is a 2-layer DVD. It is believed that the point at which the problem occurs is at the transition (layer break) to layer 2. If this is the case, then the DVD5 has a problem reading layer 2 of the disc. Further analysis of DVD5 and of the material is needed to determine the exact cause of this failure.

6/30/00: We have recreated the problem and have determined that the problem is due to a failure of the ST chipset. All DVD players using the ST chipset have the same problem. Software Version 1.54 will correct the problem.

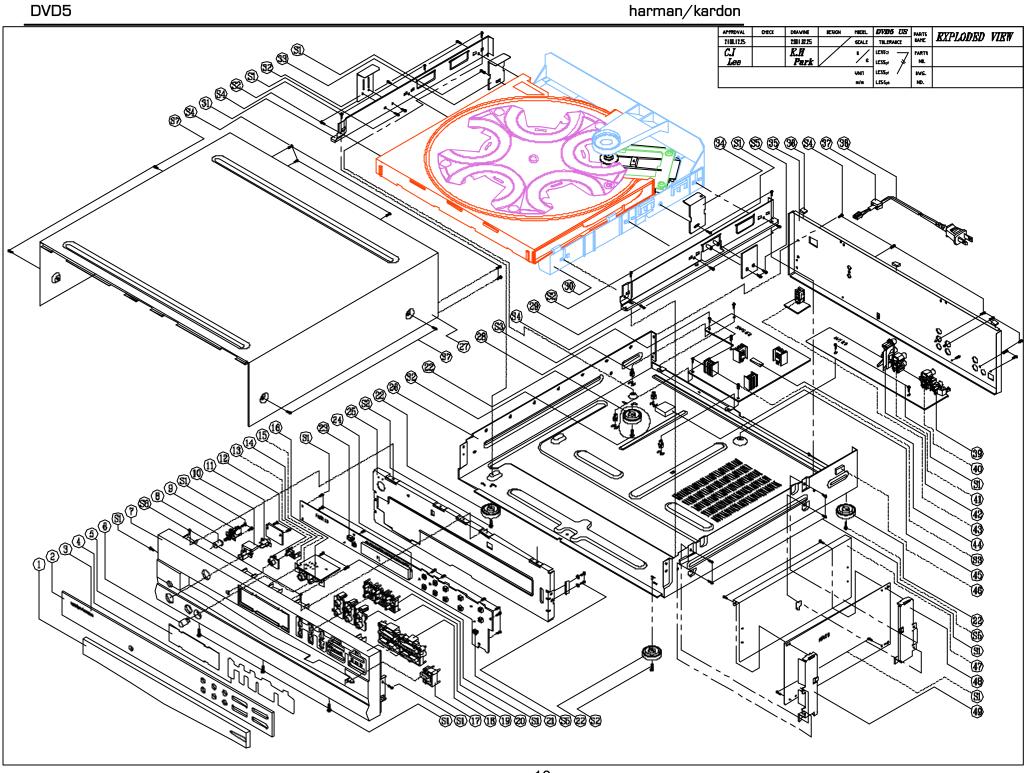
Describe Problem	ECN #24
	1), Issue the latest software version to resolve: DVD can't play 2 layer disc.
	2), Improve remote control sensitivity issue,
	change R985 from 3.9k ohm to 10k ohm.
Identify & Verify Root Cause	DVD5.0 has a problem reading layer 2 of the disc
Choose & Verify Permanent Corrective Action	Update new software(software version 1.55) to correct.
Serial Numbers	TH0007-09598 and later for DVD5 - US 120v version

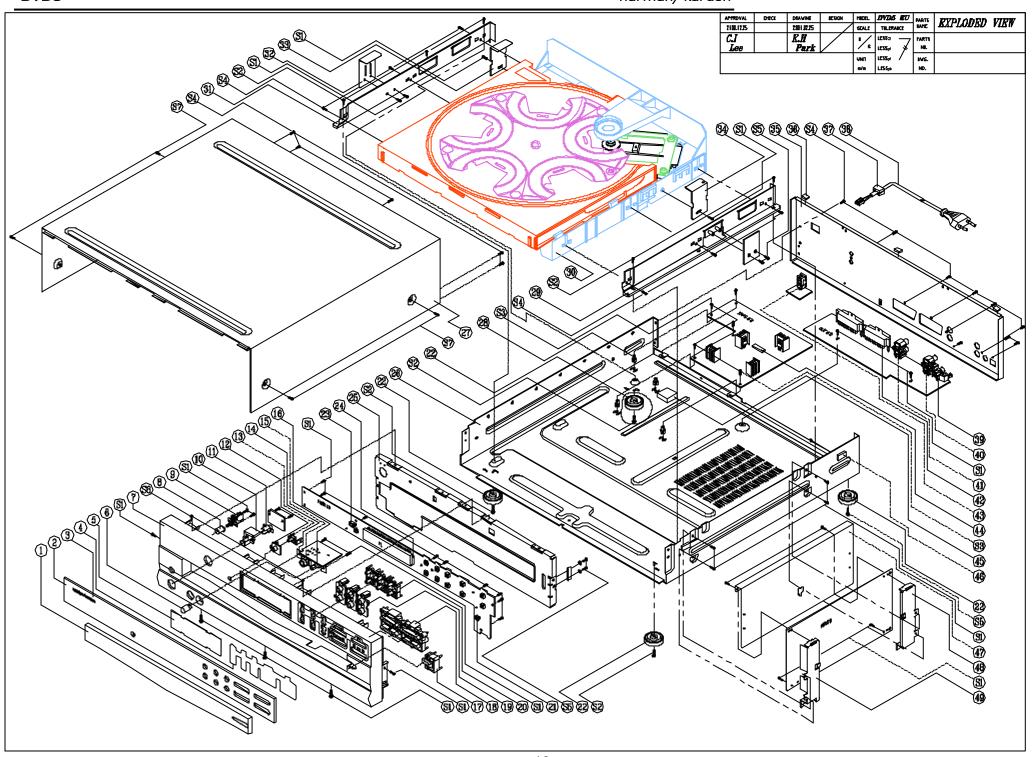
For additional information and current resources available to perform upgrades, please contact:

Harman Service Technical Support

Phone: 516-682-6435

E-mail: techsupport@harman.com





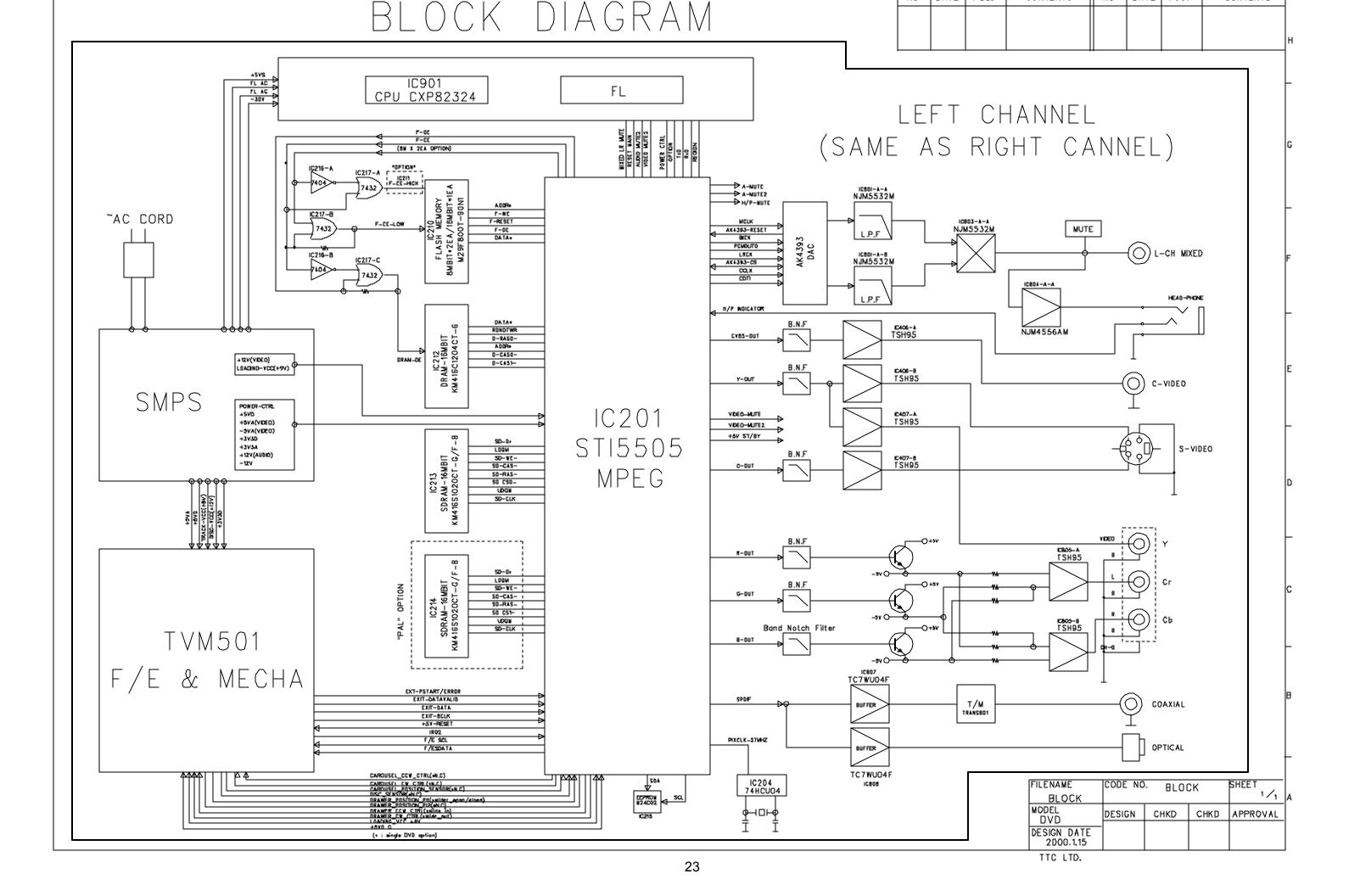
DVD5 MECHANICAL PART LIST

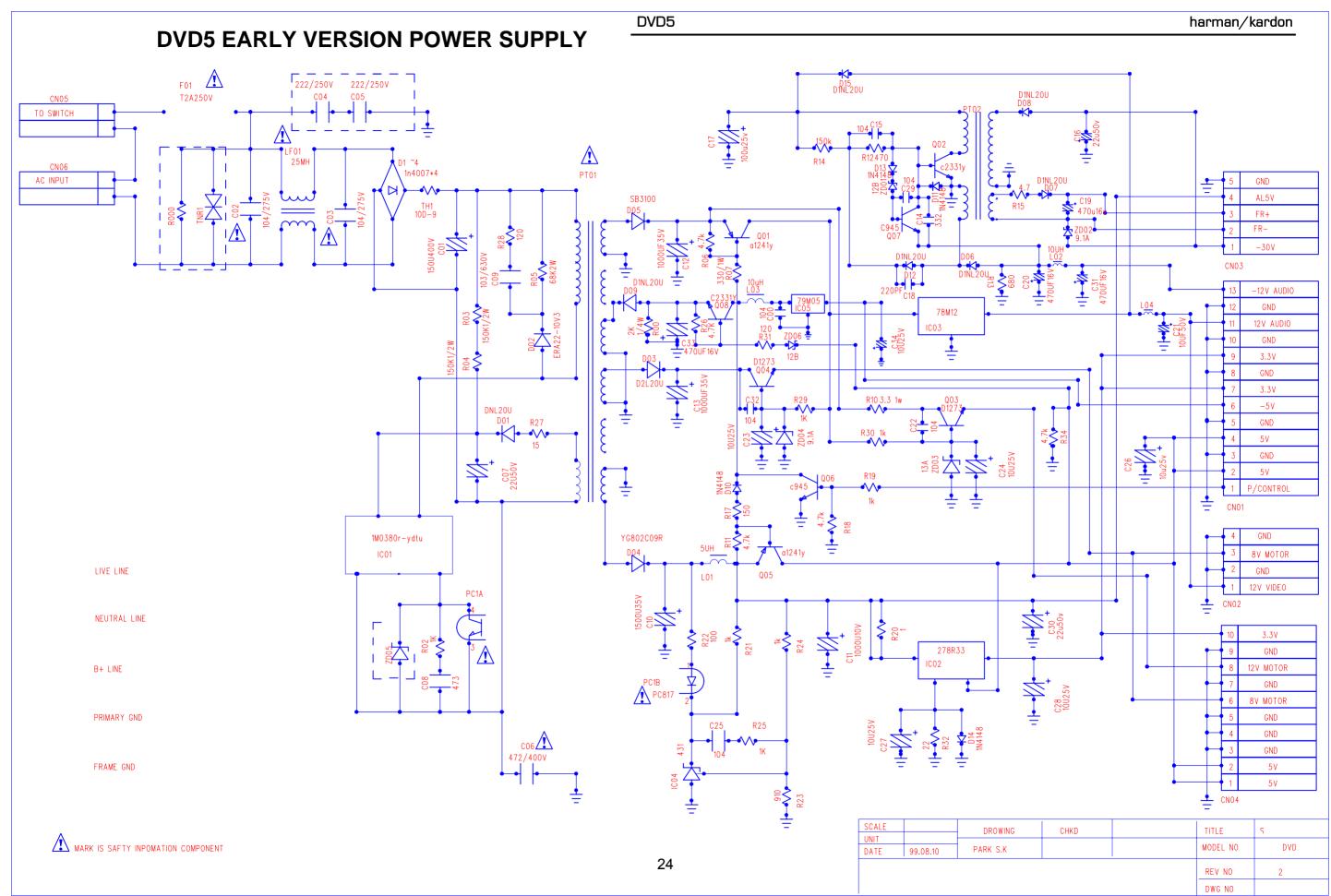
NO.	PART NO.	PART NAME	Q'	ΤΥ	NO.	PART NO.	PART NAME	Q'	ΓY
NO.	PART NO.	PART NAIVIE	US	EU	NO.	PARTINO.	PART NAIVIE	US	EU
1	J85600007000	DOOR TRAY	1	1	27	J60100004000	COVER TOP	1	1
2	J85300013000	WINDOW DISPLAY	1	1	28	J85820001100	SPACER PCB	4	4
3	J60550003000	BADGE HARMAN/KARI	1	1	29	J60200007100	FRAME MECHA R	1	1
4	J85940004000	DIFFUSER DVD5.0	1	1	30	4KTDCD5D001A	ASS'Y CDM5D	1	1
5	J85500005000	FILTER FL	1	1	31	J60200007000	FRAME MECHA L	1	1
6	J85100011000	KNOB LEVEL	1	1	32	J60300044000	BKT MECHA MID	1	1
7	J85000009000	PANEL FRONT DVD5.0	1	1	33	J60300045200	BKT MECHA LEFT	1	1
8	J85200049000	BUTTON POWER HIPS	1	1	34	J60300045000	BKT MECHA RIGHT	1	1
9	J46203000101	PWR SW SDDLB14700	1	1	35	J60110004000	PANEL REAR	1	
10	J85200052000	BUTTON STANDBY	1	1	33	J60110004200	PANEL REAR	-	1
11	J85400019000	INDICATOR STANDBY	1	1	36	J94100008000	SHIELD FORM	3	3
12	J85400024000	CAP BUT DIMMER	1	1	37	J65100000100	BUSHING-AC CORD	1	1
13	J85200059200	BUT DIMMER	1	1	38	J43730100100	CORD POWER UL SPT	1	-
14	J60300024000	BKT PHONE	1	1	30	J43731100000	CORD POWER EU 2.5A	-	1
15	J44329000102	JACK MIC 9P GOLD	1	1	39	J44301000100	JACK RCA 1P BK GND	1	1
16	J32214000401	VOLUM RK09K12A ALF	1	1	40	J44302000600	JACK RCA 2P, JE020	1	1
17	J85200055000	BUT OPEN/CLOSE	1	1	41	J44312000100	JACK RCA+S GNDCAP	1	1
18	J85200059000	BUTTON PLAY	1	1	42	J44372100205	SCART CONNECTOR	-	2
19	J85400029000	CAP BUT DISC	1	1	72	J44303000200	JACK RCA 3P RBG	1	-
20	J85200059100	BUT DISC	1	1	43	J44320000005	JACK REMOTEIH 3.5*	1	1
21	J46500500501	SW TACT SKQNAE	14	14	44	J67300013000	SPONG CUSHION	1	1
22	J85900501000	FOOT-ASS'Y	4	4	45	J97200501000	PCB SPONGE	1	1
23	J67300010000	SPONGE SENSE	1	1	46	J94100006000	SHIELD FORM	6	6
24	J67300009000	SPONGE FL	2	2	47	J60600008000	SHIELD MPEG FRONT	1	1
25	J60020002000	CHASSIS FRONT	1	1	48	J60300023100	BKT MPER REAR	1	1
26	J60000006000	CHASSIS MAIN	1	1	49	J60300023000	BKT MPEG FRONT	1	1

DVD5 Tray/Carousel exploded view (legend on following page) -10 51.x2 55 =8 21

Legend for DVD5 Tray/Carousel exploded view

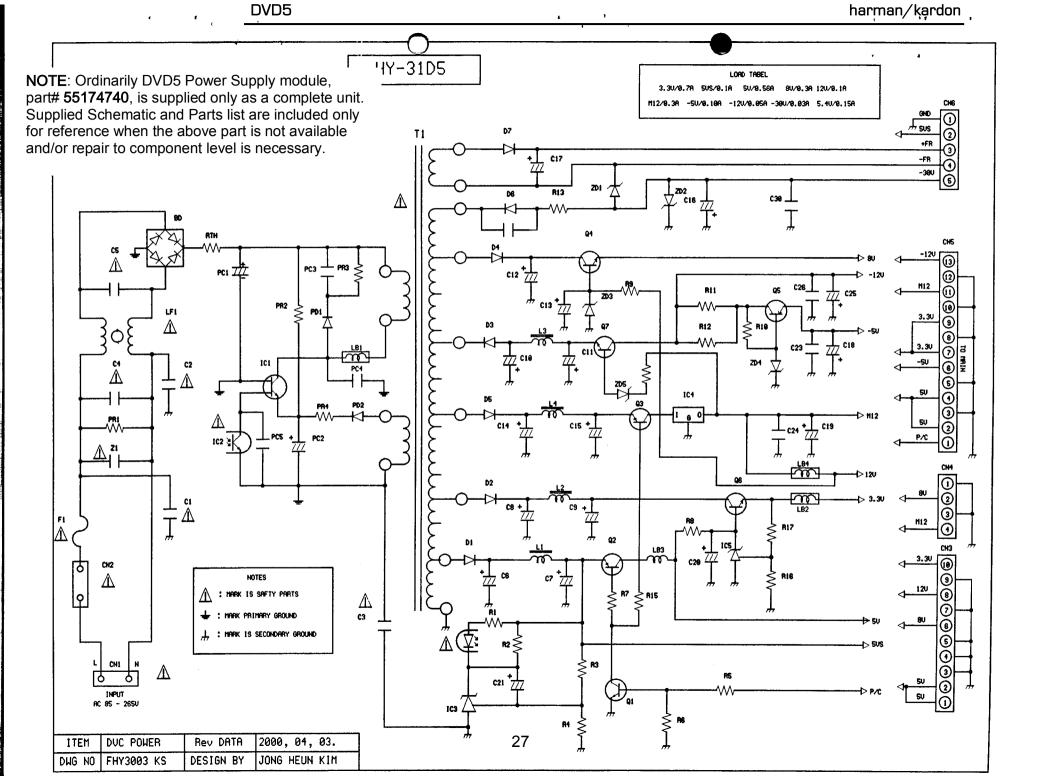
ITEM#	Part Number	Description	Q'ty
1	55020070XX	AC PLASTIC PLASTIC CD5D	1
2	55020080XX	AC PLASTIC DRAWER CD5D	1
3	20712060XX	AC SPRING CLIP CD5	1
4	20711410XX	AC PLASTIC PULLEY CD5	1
5	20711380XX	AC METAL SHAFT CD5	1
6	20710170XX	AC MLD GEAR WORM CD5	1
7	20712170XX	AC PLASTIC ROLLER HUB CD5	5
8	20712120XX	AC RUBBER ROLLER CD5	5
9	20710180XX	AC MLD GEAR HELICAL CD5	1
10	20634190XX	FELT BK 30.0MMX25.0MM 0.8MM 0MM 0 0	1
RM	20581820XX	AD ASY MOTOR DC FF-130SH-14230	1
12	55190760XX	WASHER-SPR 7.3MM 14.0MM 0.4MM Y 00 0 0	1
13	55020110XX	AC MLD GEAR MAIN CD5D	1
14	J60300048000	WASHER 55MM	1
15	20712230XX	AC PLASTIC CAM LIFTER CD5	1
16	55020090XX	AC PLASTIC BASE CD5D	1
17	10665110XX	DVD5 PICK-UP ASSEMBLY	1
18	20712240XX	AC MLD GEAR DRIVE CD5	1
19	20712250XX	AC MLD GEAR PULLEY CD5	1
LM	20584560XX	AC RAW WHEEL BELT	1
LIVI	20581800XX	AD ASY MOTOR DC RF-500TB	1
24	20712270XX	AC RUBBER BELT DRIVE CD5	1
25	20710160XX	AC RUBBER BELT PLATTER CD5	1
26	20584560XX	AC RAW WHEEL BELT	1
823	J60300036000	BKT GROUND MECHA	1
	2222222		
S1	20366370XX	SCREW-SPEC 3MM 10MM JIS LARGE WASHER HD 53 0 (4
S2	20692300XX	SCREW-ST 3MM 10MM JIS B 1122 53 0 0	3
S3	J80200031820	SCREW 3*18	1
S4	55127120XX	SCREW-ST 3MM 8MM JIS B 1122 53 0 0	1
S5	20349530XX	SCREW 2.6MM 4MM JIS B 1111 53 0 0	2
S6	20349380XX	SCREW-ST 3MM 08MM JIS B 1122 53 0 0	4





NOTE: For any or	nissions in the parts list, h/k Customer Service shou	ıld be co	ontacted
	ded parts @ (516) 255-4545		
to capping arry rice			
DVD5 POWE	SUPPLY PART LIST (Early Revision	1	
See page 33 for lo			
See page 33 loi it	T		
PART#	DESCRIPTION	QTY	Reference Designators
ΙΛΙΝΙπ	DESCRIPTION	QII	Reference Designators
Resistors			
. 100.010.0			
J3003154529X	RES CARBON/AX,TAP 150kohm 1/2W J	2	R03,R04
J3003102220X	RES CARBON/AX,TAP 1k ohm 1/8W J	4	R02,19,21,25
J3003689220X	RES CARBON/AX,TAP 6R8 ohm 1/8W J	1	R27
J3010121620X	RES OXIDE/TAP 120 ohm 1W J	1	R28
J3003101220X	RES CARBON/AX,TAP 100 ohm 1/8W J	1	R22
J3003911274X	RES MR/AX,TAP 910 ohm 1/8W F	1	R23
J3003102274X	RES MR/AX,TAP 1k ohm 1/8W F	1	R24
J3003121220X	RES CARBON/AX,TAP 120 ohm 1/8W J	1	R31
J3003102420X	RES CARBON/AX,TAP 1k ohm 1/4W J	2	R29,30
J3003220220X	RES CARBON/AX,TAP 22 ohm 1/8W J	1 7	R32
J3003472220X	RES CARBON/AX,TAP 4k7 ohm 1/8W J	5	R06,11,18,26,34
J3003472220X J3003154220X	RES OXIDE/TAP 4R7 ohm 1W J IRES CARBON/AX,TAP 150kohm 1/8W J	1	R15
	IRES CARBON/AX,TAP 150konm 1/8W J	1	R14 R12
J3003471220X J3003202420X	RES CARBON/AX,TAP 470 0ffff 1/8W J	1 1	R00
J3003202420X J3003151420X	IRES CARBON/AX,TAP 2k offilt 1/4W J	1 1	R17
J3003131420X J3003681529X	RES CARBON/AX,TAP 130 01111 1/4W J	1 1	R13
J3003564529X	RES CARBON/AX,TAP 660 01111 1/2W J	-	R000
3300330 4 323X	RES-METAL OXID / PR02 68K-J / 2W 68K-J	1	R09
J3010331620X	RES OXIDE/TAP 330 ohm 1W J	+ 1	R07
000100010207	THE CAIDENTAL SOO OHIII TW S	-	I COT
Semiconductors			
D1NL20U	DIODE F/R / D1NL20U / 200V 1A, 52mm TAPP	7	D01,06,07,08,09,12,15
	DIODE F/R / ERA22-10V3 / 1000V 0.5A	1	D02
DVD5S01	DIODE F/R / D2L20U / 200V 1.5A	1	D03
DVD5S02	DIODE F/R / MTZJ9.1A / 500mW(8.57V-9.01V)	2	ZD02,04
J2221010000X	DIODE AX/TAP, SW 1N4148	4	D10,11,13,14
DDTZ-G120B-SO0	DIODE ZENER / MTZ12B		ZD01,06
DVD5S03	DIODE ZENER / MTZ13A / 500mW 26mm, TAPP		ZD03
DVD5S04	DIODE-FR / 1N4007S / 1000V 1A		D1,2,3,4
1300-945000-100	TR / KSC945CY / 50V 150mA	2	Q06,07
DVD5S05	TR / KSC2331 Y	2	Q02,08
2SA1244	TR / KTA1241YAT / 60V 5A, TAPP	2	Q01,05
0ISS431000A	I.C / KA431AZ		IC04
J2112505020X DVD5S06	IC REG KIA7812API TO-220IS KEC IC-REGULATOR / KA79M05R / -5V 500mA		IC03 IC05
J2112505014X	IC REG KIA7905API TO-220IS KEC		IC05
DVD5S07	IC-PWM / KA1M0380R		IC02
DVD5S07 DVD5S08	DIODE-SCHOTTKY / SB3100 / 100V 3A	+ 1	ID05
DVD5S06 DVD5S09	DIODE-SCHOTTKY/SB3100/100V3A	+ 1	D03
J2123233001X	IC PHOTOCOUPLERS LTV817 DIP4P	+ 1	PC01
DVD5S27	TR / KSD1273P / 60V 3A TO220	2	Q03.04
2 0 0 0 2 1	117, 135 12701 700 07 10220		Q00,07
Canacitors			
Capacitors			
·	CAP ELEC SG 22uF 50V M 5*11	2	C07.16
J3470122071X	CAP ELEC SG 22uF 50V M 5*11 CAP ELEC SG 10uF 50V M 5*11	2 8	C07,16 C21,23,24,26,27,28,30,34
J3470122071X J3470110071X	CAP ELEC SG 10uF 50V M 5*11		C21,23,24,26,27,28,30,34
J3470122071X J3470110071X J3470147131X	CAP ELEC SG 10uF 50V M 5*11 CAP ELEC SG 470uF 16V M 10*12.5	8	C21,23,24,26,27,28,30,34 C19,20,31,33
J3470122071X J3470110071X J3470147131X DVD5S10	CAP ELEC SG 10uF 50V M 5*11 CAP ELEC SG 470uF 16V M 10*12.5 CAP ELEC / KME25V 100uF / 6*11 105°C	8 4	C21,23,24,26,27,28,30,34 C19,20,31,33 C17
J3470122071X J3470110071X J3470147131X	CAP ELEC SG 10uF 50V M 5*11 CAP ELEC SG 470uF 16V M 10*12.5	8 4 1	C21,23,24,26,27,28,30,34 C19,20,31,33

PART#	DESCRIPTION	QTY	Reference Designators
D) /D = 0 / 0			
DVD5S13	CAP-CERAMIC / EKB3A221K06FK / 1KV B 221K	1	C18
DVD5S14	CAP-CERAMIC / CCYV1H104ZE / 50V 0.1 uF TAPP	5	C00,15,22,29,32
DVD5S15	CAP POLY/RA,TAP 0.0033uF 50V -K	1	C14
DVD5S16	CAP-ELECT / SMH400V 150uF / 22*30 85°C	1	C01
J3524222730X	CAP CERA/AX,TAP X 2200pF 16V M	1	C06
DVD5S17	CAP ELEC SG 1000uF 35V M 13*25	2	C12,13
P10308-ND	CAP-ELECT / KME35V 1500uF / 16*25(105°C)	1	C10
J3610104330X	CAP POLYESTER/RA,TAP 0.1 uF 100V -K	2	C02,03
DVD5S18	CAP FILM / PC2JRB103K / 630V 0.01uF	1	C09
Miscellaneous			
DVD5S19	PEAKING-COIL / AA-E1 / DR6.5*7.5 10uH TAPP	3	L02,03,04
	FUSE CLIP / FC51F 5.23*20mm / AUTO INSERT TYPE	2	F0R,01
DVD5S20	LINE-FILTER / SQ2015 / 25mH	1	LF01
DVD5S21	THERMISTOR / DSC-10D-9 / 10ohm 3A	1	TH1
DVD5S22	CHOKE COIL / AA-27 / BAR CORE 5*20 5uH	1	L01
DVD5S23	CONNECTOR / GILS13PS2T2EF / 13PIN	1	CN01
	LEAD CONNECTOR ASS'Y / 5PIN	1	CN03
	WAFER / GILS4PS2T2EF / 4PIN	1	CN02
	CONNECTOR WAFER / 90325-0010 / 10P	1	CN04
	POST HEADER / YW396-03AV / WHITE COLOR(2PIN)	2	CN05,06
DVD5S24	FUSE / 50T2L 250V 2.0A	1	F01
	HEAT SINK / AL1.5T / 23.3*17*25	4	FOR IC01,02,D04
	HEAT SINK / AL1.5T	1	FOR IC05
DVD5S25	TRANSFORMER / DVD / EER2828	1	PT01
DVD5S26	TRANSFORMER / DVD / EE1614	1	PT02
	LUG GROUND	4	
	SCREW / TSWH3*8 / GLD	1	
	SCREW / TSWH3*8 / GLD	4	



PARTS LIST

00-04-25

			IIMIO DIOI			00-04-25
NO	ITEM	SPECIFICATION	DESCRIPTION	VENDOR	QTY	LOCATION
	P.C.B.	FR-1 (HY-31D5)	150 X 170mm	GANA	1	
2	WAFER	YW396-03AV	WHITE COLOR(2PIN)	YEONHO	1	CN1, CN2
		HLW3960-N-3		HAECHANG		
3	WAFER	GIL-S-13P-S2T2EF	13PIN	LG CABLE	1	CN5
	WAS EST	OIL O AD COTOES	ADIN	LG CABLE		CN4
4	WAFER	GIL-S-4P-S2T2EF	4PIN	ILG CABLE	 '	I OIN4
5	WAFER	8370-10P(STRAIT)	10PIN FOR US	ELCO	1	CN3
	VV/ (I	90325-0010	10PIN FOR EU	MOLEX		
6	LEAD CONNECTOR		5PIN	HWASUNG		CN6
<u>~</u>	ASS'Y			TAEPYOUNGSA		
7	C CERA	DG 102M 250VAC	1uF	SAMHWA	3	C1,C2,C3
<u>-</u>		SD 02M 400VAC			ļ	
8	LINE ACROSS	PCX2 335 104 AC275V	100uF	SUNGIL	1 1	C4
9	LINE ACROSS	PCX2 335 473 AC275V	47uF	SUNGIL	1	C5
10	C ELECTRO	400V 68uF	22 X 25 80°C	DAEWOO	1	PC1

11	C MYLAR	630V 223J	22uF	RUBYCON	1 1	PC3
12	C CERA	1KV 101K	0.1uF	RUBYCON	2	PC4,C22
13	C ELECTRO	RG 50V 22uF	5X11 80°C	SMAHWA	1	PC2
		MH5 50V 22uF		RUBYCON		
14	C MYLAR	100V 104J	100uF	DAEYOUNG	1	PC5
15	C ELECTRO	RG 50V 1uF	5X11 80℃	SMAHWA	1	C21
		MH5 50V 1uF		RUBYCON	<u> </u>	
				HWAYOUNG ELECT		CO ITD

PARTS LIST

00-04-25

NO	ITEM	SPECIFICATION	DESCRIPTION	VENDOR	Q'TY	LOCATION
16	C ELECTRO	RG 10V 1000uF	10X16 80℃	RUBYCON	2	C6,C7
						
17	C ELECTRO	RG 16V 470uF	10 X 13 80℃	RUBYCON	5	C10,C11,C12,C14,C15
10	O ELECTRO	RG 50V 10uF	5X11 80℃	RUBYCON		C13,C18,C19,C20,C25
18	C ELECTRO	HG 50V TOUP	5 1 1 80 0	HUBICON	<u> </u>	013,010,019,020,023
19	C ELECTRO	RG 10V 470uF	8X12 80℃	RUBYCON	2	C8,C9
20	C ELECTRO	RG 50V 47uF	6.3 X 11 80℃	RUBYCON	1	C16
	O CECOTTO					
21	C ELECTRO	RG 10V 220uF	6.3 X 11 80℃	RUBYCON	1	C17
		50/4047	1.00 5	KINOLINO	4	000,004,000,000
22	C CERA	50V 104Z	100uF	KIYOUNG	4	C23,C24,C26,C30
23	DIODE F/R	UF4005,SUF4007,HER106	1000V 1A	PYUNGCHANG	1	PD1
24	DIODE F/R	1N4937	600V 1A	PYUNGCHANG	2	PD2,D7
25	DIODE F/R	ER202	200V 2A	PYUNGCHANG	3	D1,D2,D5
		SF24		DAEBO		
26	DIODE F/R	ER102	200V 1A	PYUNGCHANG	11	D6
		SF14		DAEBO		50.54
27	DIODE F/R	ER101,ER102	200V 1A	PYUNGCHANG	2	D3,D4
	DIODE DDIDOE	SF14	5007.04	DAEBO		BD
28	DIODE BRIDGE	KBP205,PBP205	500V 2A	DAEBO		עם
29	DIODE ZENOR	UZ9.1BSA	50mW(8.57V~9.01V)	PYUNGCHANG	1	ZD1
30	DIODE ZENOR	UZ33BSB		PYUNGCHANG	1	ZD2
				HWAYOUNG ELECT	2011100	

PARTS LIST 00-04-25

NO	ITEM	SPECIFICATION	DESCRIPTION	VENDOR	Q'TY LOCATION
31	DIODE ZENOR	UZ9.1BSB		PYUNGCHANG	1 ZD3
32	DIODE ZENOR	1N5232 1/2W 5.6V		PYUNGCHANG	1 ZD4
<u> </u>	DIODE ZENOTI	1110202 1/211 0.01		1 10114011/114	
33	DIODE ZENOR	18V		PYUNGCHANG	1 ZD5
34	FUSE	55T 250V 2A	ALL MARKING	SAMJU LITTLE	1 F1
		50CT 250V 2A			
35	FUSE CLIP	PFC 5000-0702	AUTO INSERT TYPE	SAMJU LITTLE	2 F1a,F1b
36	IC PWM	1M0380R-YDTU		SAMSUNG	1 IC1
37	PHOTO-COUPLER	LTV817C	7.8mm C-GRADE	LITEON	2 IC2
		PC-17K1		KODENSHI	
38	IC REGULATOR	KA431AZ-MTA		SAMSUNG	2 IC3,IC5
39	IC REGULATOR	KA7812	12V 1A	SAMSUNG	1 IC4
40	TR	KSC945CY	50V 150mA	SAMSUNG	1 Q1
		C3198			
41	TR	KSA1273Y		SAMSUNG	3 Q2,Q3,Q5
	+6	KSA928A	100V 6A	SAMSUNG	204.06
42	TR	TIP41C KSD2058-YTU	100V 6A	SAMSUNG	2 Q4,Q6
43	TR	KSC3205Y		SAMSUNG	2 Q7
1 70	111	KSC2328A			
44	LINE FILTER	SQ2014	30mH	HWAYOUNG	1 LF1
45	CHOKE COIL	L0811	22uH	HWAYOUNG	4 L1,L2,L3,L4
				LIWAYOUNG ELECT	

PARTS LIST

00-04-25

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NO	ITEM	SPECIFICATION	DESCRIPTION	VENDOR	Q'TY	LOCATION
	BEAD COIL		5uH	SAMHWA	4	LB1,LB2,LB3,LB4
47	R METAL-OXIDE	1W 120K		JAEYOUNG	1	PR3
48	R METAL-OXIDE	1W 330K		PILKOR SUNGIL	1	PR2
49	R CARBON FILM	1/6W 20		PILKOR JAEYOUNG	1	PR4
	R CARBON FILM	1/8W 20 1/6W 820		JAEYOUNG	1	R1
		1/8W 820				
51	R CARBON FILM	1/6W 1K 1/8W 1K		JAEYOUNG		R2,R5,R6
52	R CARBON FILM	1/6W 11KF 1/8W 11KF		JAEYOUNG	1	R3
53	R CARBON FILM	1/6W 10KF 1/8W 10KF		JAEYOUNG	1	R4
54	R CARBON FILM	1/4W 56		JAEYOUNG	1	R7
55	R CARBON FILM	1/6W 33 1/8W 33		JAEYOUNG	1	R8
56	R CARBON FILM	1/6W 470		JAEYOUNG	2	R9,R10
57	R CARBON FILM	1/8W 470 1/2W 100		JAEYOUNG	2	R11,R12
58	R CARBON FILM	1/4W 100		JAEYOUNG	1	R13
59	R CARBON FILM	1/6W 2K		JAEYOUNG	1	R14
60	R CARBON FILM	1/8W 2K 1/4W 470		JAEYOUNG	1	R15
				LIMANOLINO EL EGI		

PARTS LIST 00-04-25

NO	ITEM	SPECIFICATION	DESCRIPTION	VENDOR	Q'TY	LOCATION
61	R CARBON FILM	1/6W 35KF		JAEYOUNG	1	R16
		1/8W 35KF				
62	R CARBON FILM	1/6W 13KF		JAEYOUNG	1	R17
		1/8W 13KF				
63	TRANSFORMER	HY-31D5	950uH-EER2828	HWAYOUNG	1	T1
				<u> </u>		
64	VARISTOR	SVC471D10A		SAMHWA	1	Z1
		DNR10D471K		HYUNWOO		
65	THERMISTOR	5D9		SUYANG	1	RTH
66	JUMP-WIRE	0.65mm	SOLDER COATED	DAE-A LEAD	18	J1,J2,J3,J4,J5,J6,J7,J8,
						J10,J11,J12,J13,J14,J15
	LIEAT OINIK	(2)(2)(2)	00	CANA		J17,J18,J19
67	HEAT SINK	GN26900(30)	30mm	GANA]	IC1a
	CODEW	3 X 8				IC1b
00	SCREW	3.70				ICID
69	LOG EARTH	4Ф		DONGYANG	4	E1,E2,E3,E4
	LOG L/WIII			00114174144	······································	
70	SOLDER WIRE	RS63-0.8A	SN63,PB37	ALPHA		
71	SOLDER BAR	S63S-B20	SN63,PB37	ALPHA		
72	FLUX THINNER	I.P.A				
73	AUTO FLUX	JS-95TVS				
74	CARTON BOX					
		<u> </u>	<u> </u>	LIMAYOUNG ELECT		

harman/kardon

Service Bulletin

Service bulletin # H/K2002-05 November 2002

Warranty labor rate: MINOR repair

To: All harman/kardon Service Centers

Model: DVD5

Subject: Stays in Standby mode; Power Supply Variations

In the event you receive a DVD5 with one or more of these symptoms:

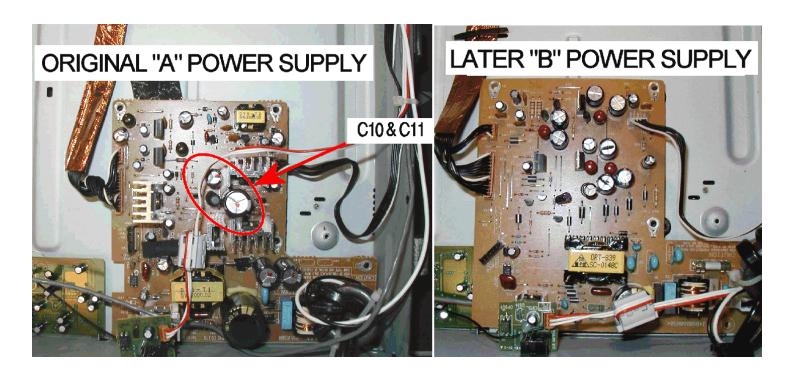
Unit stays in Standby mode (amber indicator light)

• Unit will play for a time period, then goes into standby mode (amber indicator light)

Synopsis: Check and replace capacitors C10, C11, and diode D01 with new parts in the power supply section when necessary; they may be damaged.

There are two versions of the DVD5 power supply, an earlier "A" and later "B" supply. Bulletin only affects the DVD5 with earlier "A" supply. (See images below).

- 1) Remove the top cover.
- 2) Pull all ribbon connectors from the decoder PCB that connect to the chassis.
- 3) Remove the 4 screws that hold the chassis down to the bottom panel assy.
- Pull the chassis slightly up in the rear and remove the entire assy. out the back.
 C10: h/k part# P10308-ND ELECT 1500uf 35v 105c radial capacitor (in between two heatsinks)
 C11: h/k part# P5521-ND ELECT 1000uf 10v 105c radial capacitor
 Check and replace D01 Diode (200V 1A) in the power supply section if necessary with
- h/k part# **D1NL20U**5) Reinstall in the reverse order.



harman/kardon

Service Bulletin

Service bulletin # H/K2003-01 Rev1 July 2003

Warranty labor rate: MAJOR repair

To: All harman/kardon Service Centers

Model: DVD5

Subject: Replacement of Laser Pick-up Assembly

In the event you receive a DVD5 where a Laser Pick-up Assembly replacement is warranted, the original DVD5 mechanism is no longer available. Follow the instructions below to add a new replacement mechanism:

I) Order the following parts:

1) Laser Pick-up Ass'y (TVK15-1AA/502T) h/k part# 10733290RETRO

2) 10 wire - FCC CABLE h/k part# 55174870 3) 12 wire - FCC CABLE h/k part# 55174860

In addition, if the DVD5 has the early version of the power supply described in h/k bulletin # HK2002-05, (Figure 3 on page 2), order:

4) 10 wire – CONNECTOR h/k part# 55284430

In addition, if the DVD5 is in the serial number range TH0007-07492 and below, order:

5) 5 Disc Carousel h/k part# 5502007AMP

II) DVD-5 Loader Module Replacement

- 1) Remove the top cover.
- 2) Pull all ribbon connectors from the decoder PCB that connect to the chassis.
- 3) Remove the 4 screws that hold the chassis down to the bottom panel assy.
- 4) Pull the chassis slightly up in the rear and remove the entire assy. out the back.

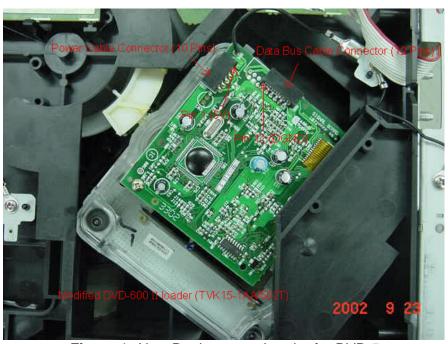


Figure 1. New Replacement Loader for DVD-5

2

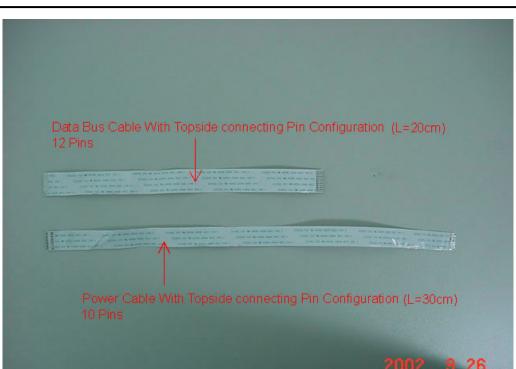


Figure 2. Flex Cables Required for Replacing New DVD-5 Loader

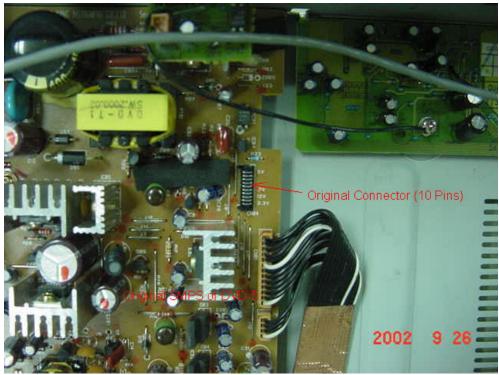


Figure 3. Original DVD5 POWER SUPPLY Power connector header (See h/k bulletin # HK2002-05)

a) Early Version: Molex Connector should be replaced with 10-Pin FCC connector, part# 55284430 on POWER SUPPLY module. See Figure 4. After replacing original molex connector, connect the loader and power supply with 10 wire - FCC CABLE, part# 55174870. Connect Pin 1 → Pin1 and Pin 10 → Pin 10. Refer to Figure 4 and Figure 6.

3

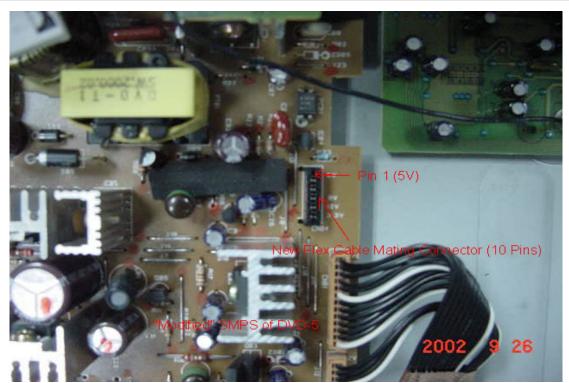


Figure 4. "Modified" DVD5 Power Supply

b) DVD-5 Later Version

No modification to the power supply connector is necessary if DVD5 has the connector shown in Figure 5 below. Connect loader module to power supply with 10 wire - FCC CABLE, part# 55174870.

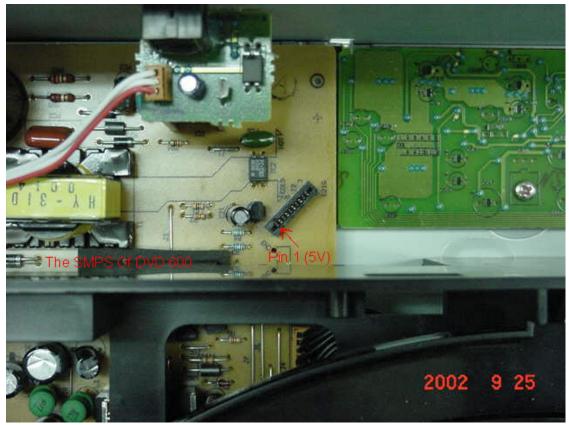
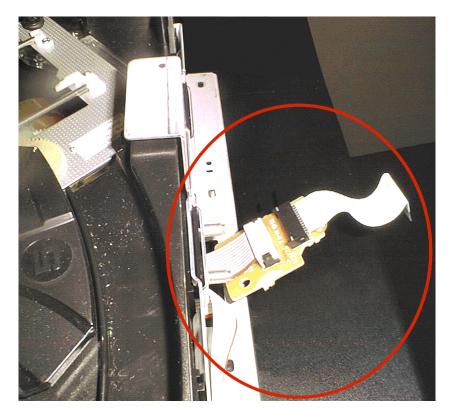


Figure 5.

III) Connect New Data Bus Cable From Loader To Main PCB

Connect new loader module's 12 pin data bus connector to *Main PCB*, using 12 wire - FCC CABLE part# 55174860. See Figure 6. IMPORTANT: This new cable bypasses and replaces two former cables and the interface PCB shown below, which should be removed and discarded (shown unfastened here from the chassis for illustration).



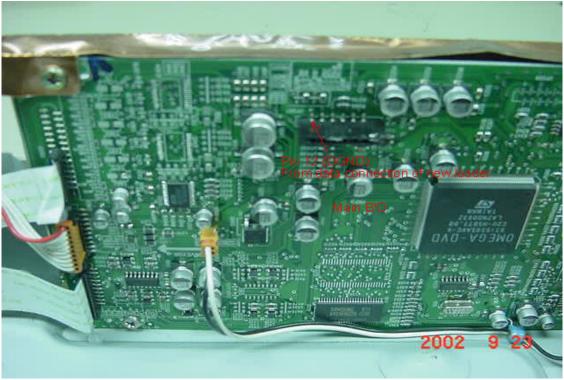


Figure 6. The data bus connector of Main B'D

IV) Replace Carousel with part# 5502007AMP if the DVD5 is in the serial number range TH0007-07492 and below, or if your carousel resembles the one below.



(Original) DVD5 Carousel



New Carousel, part# 5502007AMP, (used in DVD600 & DVD600 mkll)

V) Reassemble and test the unit.

Ref. Designator	Part Number	Description	Qty	Ref. Designator	Part Number	Description	Qty
DVD5 E	LECTRICAL I	PARTS LIST		CN205 CN208	J4422401523X J4422501327X	FPC ST 1.0 15P FPC ANG 1.0 13P	1
MAIN PCB				CP202	J4422401523X	FPC ST 1.0 15P	1
MAINTOB				CP207 CP802	J4422411220X J4425031040X	FPC ST 1.25 12P CNT SMD 10P 2.0	1
R001	5088295016RCF	100R0 OHM +5%	1	C206	J3515100270X	CC CHIP 10PF 50V D	1
R002	5088295016RCF	100R0 OHM +5%	1	C211	J3525104540X	CC/CHIP 0.1U 25V Z	1
090 100	J60600008000 J4112103001X	SHIELD MPEG FRONT CARD CABLE 10P 1.2	1 1	C213	J3525104540X	CC/CHIP 0.1U 25V Z	1
CC203	J41112120001X	CABLE 21P 200 1.0	1	C214	J3525104540X	CC/CHIP 0.1U 25V Z	1
CC203	J4111212200X	CABLE 21P 220 1.0	1	C215 C216	J3525104540X J3470010106X	CC/CHIP 0.1U 25V Z CE 100UF 16V	1
CC205	J4111152000X	CABLE 15P 200 1.0	1	C217	J3525103170X	CC/CHIP .01U 50V K	1
CC207	J4112120600X	CABLE 12P 60 1.25	1	C218	J3515331170X	CC/CHIP 330PF 50V	1
CC207 CN200	J4112122001X J4350009914X	CABLE 12P 200 1.25 CNT 17P SHELD 650	1 1	C219	J3525332170X	CC/CHIP 3300PF 50V	1
CP206	J4420031240X	CNT PLUG12P 2.0MM	1	C220	J3525103170X	CC/CHIP .01U 50V K	1
CP212	J4420030240X	CON WAFER 2P 2.0	1	C221 C222	J3470010106X J3470010106X	CE 100UF 16V CE 100UF 16V	1
CP213	J4420030440X	CNT PLUG 4P 2.0MM	1	C222 C223	J3525103170X	CC/CHIP .01U 50V K	1
CP214	J4420031140X	CNT ST 11P 2.0	1	C226	J3525104540X	CC/CHIP 0.1U 25V Z	1
FC101	J2632400016X	FERRITE CORE 12 BO	1	C227	J3525104540X	CC/CHIP 0.1U 25V Z	1
FC102 FC103	J2632400016X J2632400026X	FERRITE CORE 12 BO FERRITE CORE 14 BO	1 1	C228	J3525104540X	CC/CHIP 0.1U 25V Z	1
FC104	J2632400026X	FERRITE CORE 14 BO	1	C229 C230	J3525104540X	CC/CHIP 0.1U 25V Z	1
FC105	J2632100016X	EMI CORE RING34 34	1	C230 C239	J3525104540X J3515220270X	CC/CHIP 0.1U 25V Z CC/CHIP 22P 50V	1
C2 LG01	J4141300501Y	HOOK-UP 50 1P #26	1	C239	J3515240270X	CC/CHIP 24PF 50V 2	1
C2 LG02	J4141300901X	HOOK-UP 90 1P #26	1	C240	J3515220270X	CC/CHIP 22P 50V	1
LM201	J2612222023X	COIL RA 22UH K	1 1	C240	J3515240270X	CC/CHIP 24PF 50V 2	1
L206 X201	J2612222923X J3914010036X	2.2UH KS0606-2R2K CRYSTAL 27M 16.5PF	1	C241	J3525104540X	CC/CHIP 0.1U 25V Z	1
CP210	J4420011206X	CNT ST 1.27	1	C242 C243	J3525104540X J3525104540X	CC/CHIP 0.1U 25V Z CC/CHIP 0.1U 25V Z	1
CP211	J4422111220X	FPC 1.25 12P	1	C243 C244	J3525104540X	CC/CHIP 0.10 25V Z	1
C001	80434590AF	CC 22P0F +5% -5% 5	1	C245	J3525104540X	CC/CHIP 0.1U 25V Z	1
C002	20246950AF	CC 100N0F +10% -10	1	C246	J3525104540X	CC/CHIP 0.1U 25V Z	1
C003 C004	80434590AF 20246950AF	CC 22P0F +5% -5% 5 CC 100N0F +10% -10	1 1	C247	J3525104540X	CC/CHIP 0.1U 25V Z	1
C005	20268030AM	CE 1MI0F +20% 25.0	1	C248	J3525104540X	CC/CHIP 0.1U 25V Z	1
D001	2041428001	D-ZENER 1N5232B 5	1	C249 C250	J3525104540X J3525104540X	CC/CHIP 0.1U 25V Z CC/CHIP 0.1U 25V Z	1
D002	2041428001	D-ZENER 1N5232B 5	1	C251	J3525103170X	CC/CHIP .01U 50V K	1
IC001	20458950NR	IC-MOTORCIR BA6209	1	C252	J3470010106X	CE 100UF 16V	1
IC001 IC002	20656300NR 20458950NR	IC-MOTORCIR LB1641 IC-MOTORCIR BA6209	1	C253	J3525103170X	CC/CHIP .01U 50V K	1
IC002	20656300NR	IC-MOTORCIR LB1641	1	C254	J3470010106X	CE 100UF 16V	1 1
L001	20265120NR	LF 39U0H +10% 130M	1	C255 C256	J3525103170X J3470010106X	CC/CHIP .01U 50V K CE 100UF 16V	1
M021	20656240XX	MAT-ING DOW CORNIN		C257	J3525103170X	CC/CHIP .01U 50V K	1
M022	20457000XX	MAT-ING DOW CORNIN	4	C258	J3470010036X	CE 10U 16V M 3*5.2	1
PI001 PI001	20586840NR 20621240NR	D-PHOTO RPI-574 D-PHOTO GP1S58V 20	1 1	C259	J3525103170X	CC/CHIP .01U 50V K	1
PI002	20586840NR	D-PHOTO RPI-574	1	C260 C261	J3470010106X	CE 100UF 16V	1
PI002	20621240NR	D-PHOTO GP1S58V 20	1	C261	J3525103170X J3470022036X	CC/CHIP .01U 50V K CE 22U 16V M 5*5.2	1
PI003	20586840NR	D-PHOTO RPI-574	1	C263	J3470022036X	CE 22U 16V M 5*5.2	1
PI003	20621240NR	D-PHOTO GP1S58V 20	1	C265	J3515100270X	CC CHIP 10PF 50V D	1
PI004 P003	20556130NR 20504010XX	D-PHOTO GP2S28 20M CONN 2.0MM 6 MA ST	1 1	C266	J3515100270X	CC CHIP 10PF 50V D	1
C2 P004	20713210XX	WCL 150-05-05 UL24	1	C267 C268	J3515100270X	CC CHIP 10PF 50V D	1
P027	20713500NR	WCASSY 06187F 06 1	1	C200	J3515100270X J3515200270X	CC CHIP 10PF 50V D CC/CHIP 20P 50V	1
P406	J4350009909X	CNT 12P 280 #26 2	1	C301	J3515100270X	CC CHIP 10PF 50V D	1
C2 P406B	20649240XX	WCL 060-05-05 UL24	1	C312	J3515471170X	C-CHIP 2012SL 470P	1
R003 R004	2054943001 2054943001	RCFF 2R2 OHM +5% 2 RCFF 2R2 OHM +5% 2	1 1	C332	J3525104540X	CC/CHIP 0.1U 25V Z	1
CM207	J3470010106X	CE 100UF 16V	1	C333	J3525104540X	CC/CHIP 0.1U 25V Z	1
CM208	J3515100270X	CC CHIP 10PF 50V D	1	C334 C335	J3525104540X J3525104540X	CC/CHIP 0.1U 25V Z CC/CHIP 0.1U 25V Z	1 1
CM209	J3515100270X	CC CHIP 10PF 50V D	1	C336	J3470022036X	CE 22U 16V M 5*5.2	1
CM210	J3515100270X	CC CHIP 10PF 50V D	1	C337	J3525104540X	CC/CHIP 0.1U 25V Z	1
CM211 CM212	J3515100270X J3515100270X	CC CHIP 10PF 50V D CC CHIP 10PF 50V D	1 1	C338	J3525104540X	CC/CHIP 0.1U 25V Z	1
CM212 CM213	J3515100270X J3515100270X	CC CHIP 10PF 50V D	1	C348	J3470010036X	CE 10U 16V M 3*5.2	1
CM214	J3515100270X	CC CHIP 10PF 50V D	1	C349 C350	J3525104540X J3525104540X	CC/CHIP 0.1U 25V Z CC/CHIP 0.1U 25V Z	1
CM215	J3515100270X	CC CHIP 10PF 50V D	1	C350 C351	J3470022036X	CE 22U 16V M 5*5.2	1
CN203	J4422402123X	FPC ST 1.0 21P	1	C353	J3525104540X	CC/CHIP 0.1U 25V Z	1

C356	Ref. Designator	Part Number	Description	Qty	Ref. Designator	Part Number	Description	Qty
C356	C354	J3525104540X	CC/CHIP 0.1U 25V Z	1	C498	J3525104540X	CC/CHIP 0.1U 25V Z	1
C356				1				1
C3598 J3525104540X CC/CHIP 0.1U 28V Z 1 C505 J3525104540X CC/CHIP 0.1U 28V Z 1 C508 J3515100270X CC CHIP 10PE 50V D 1 C508 J3515100270X				1				1
C356								1
C386								1
Case Jas25104540X				-				1
C3636 J3525104540X CC/CHIP 0.1 U.5V Z 1 C509 J3515100270X CC CHIP 10PF 50V D 1 C364 J3525104540X CC/CHIP 1.0 U.5V Z 1 C511 J3515100270X CC CHIP 10PF 50V D 1 C366 J351530270X CC CHIP 10PF 50V D 1 C512 J3515100270X CC CHIP 10PF 50V D 1 C516 J3515100270X CC CHIP 20PF 50V D 1 C516 J35151002070X CC CHIP 20PF 50V D				-				1
Case Jas25104540X CC/CHIP 0.1U 25V Z 1 C510 Jas15100270X CC CHIP 10PF 50V D 1 C364 Jas15100270X CC CHIP 10PF 50V D 1 C365 Jas15130270X CC/CHIP 10PF 50V D 1 C366 Jas15130270X CC/CHIP 10PF 50V D 1 C366 Jas15130270X CC/CHIP 10PF 50V D 1 C366 Jas15130270X CC/CHIP 10PF 50V D 1 C367 Jas15130270X CC/CHIP 10PF 50V D 1 C368 Jas15130270X CC/CHIP 10PF 50V D Jas15130270X CC/CHIP 20PF 50V D Jas1513020270X CC/CHIP 20PF 50V D Jas1513020070X CC/CH								1
C364								1
C366		J3525104540X		1			CC CHIP 10PF 50V D	1
C386		J3515330270X		•		J3515100270X		1
Case								1
Case				-				1
C401								1
C402								1
C404 J3525104540X C2(CHP 0.1U Z5V Z 1 IC211 J21310160010X IC FLASH MZ5F800				1				1
C406	C403	J3525104540X	CC/CHIP 0.1U 25V Z	1		J2131007002X	IC FLASH M29F800T	1
C406								1
C408								1
C409				-				1
C411				-				1
CA11								1
C412 J3515200270X CC/CHIP 0.10 25V 1 IC402 J2133031001X IC AK4393 AUDIO 1								1
C414 J3515150270X CC/CHIP 26P 50V 1 IC407 J2110007001X IC TSH95D VIDEO 1 C416 J3515680270X CC/CHIP 26P 50V 1 IC408 J211291201X IC 7805DLA REG 1 C416 J3515680270X CC/CHIP 26P 50V 1 J201 J3024000120X RES 0 OHM 1/10W J 1 C418 J3515200270X CC/CHIP 26P 50V 1 J203 J3024000120X RES 0 OHM 1/10W J 1 C418 J3515200270X CC/CHIP 16P 50V 1 J203 J3024000120X RES 0 OHM 1/10W J 1 C419 J3515200270X CC/CHIP 26P 50V 1 J204 J3024102120X RES OHM 1/10W J 1 C419 J3515200270X CC/CHIP 26P 50V 1 J204 J3024102120X RES CHIP 1R 1/10W 1 C421 J3515200270X CC/CHIP 26P 50V 1 J206 J3024102120X RES CHIP 1R 1/10W 1 C422 J351580270X CC/CHIP 26P 50V 1 J206 J3024102120X RES CHIP 1R 1/10W 1 C423 J351580270X CC/CHIP 26P 50V 1 J206 J3024102120X RES CHIP 1R 1/10W 1 C423 J351580270X CC/CHIP 26P 50V 1 L202 J2611022011X COIL CHIP ELIFC220 1 C424 J351580270X CC/CHIP 26P 50V 1 L202 J2611022011X COIL CHIP ELIFC220 1 C425 J351580270X CC/CHIP 26P 50V 1 L205 J2631300011X BEAD 120XOHM 1 C426 J351580270X CC/CHIP 26P 50V 1 L205 J263130001X BEAD FCM3216V 2K 1 C428 J3515802070X CC/CHIP 26P 50V 1 L208 J2631330085X BEAD FCM3216V 2K 1 C428 J3515802070X CC/CHIP 26P 50V 1 L208 J2631330085X BEAD FCM3216V 2K 1 C428 J3515802070X CC/CHIP 26P 50V 1 L210 J2631330085X BEAD FCM3216V 2K 1 C429 J3515200270X CC/CHIP 26P 50V 1 L210 J2631330085X BEAD FCM3216V 2K 1 C430 J3515102070X CC/CHIP 26P 50V 1 L211 J2631330085X BEAD FCM3216V 2K 1 C430 J3515102070X CC/CHIP 26P 50V 1 L211 J2631330085X BEAD FCM3216V 2K 1 C430 J3515102070X CC/CHIP 26P 50V 1 L330 J2611022011X COIL CHIP ELIFC220 1 C434 J3515102070X CC/CHIP 26P 50V 1 L330 J2611022011X COIL CHIP ELIFC220 1 C436 J3525104540X CC/CHIP 0.1U 25V Z 1 L334 J2631330085X BEAD FCM3216V 2K		J3515200270X		1		J2133031001X	IC AK4393 AUDIO	1
C416				-				1
C416								1
C417 J3515200270X CC/CHIP 20P 50V 1 J202 J3024000120X RES 0 CHM 1/10W J 1 C419 J3515150270X CC/CHIP 15P 50V 1 J203 J3024000120X RES 0 CHM 1/10W J 1 C420 J3515580270X CC/CHIP 20P 50V 1 J204 J3024102120X RES CHIP 1K 1/10W 1 C420 J3515580270X CC/CHIP 20P 50V 1 J206 J3024102120X RES CHIP 1K 1/10W 1 C421 J3515500270X CC/CHIP 20P 50V 1 J206 J3024102120X RES CHIP 1K 1/10W 1 C422 J3515500270X CC/CHIP 20P 50V 1 J206 J3024102120X RES CHIP 1K 1/10W 1 C422 J3515500270X CC/CHIP 20P 50V 1 J207 J3024102120X RES CHIP 1K 1/10W 1 C423 J3515500270X CC/CHIP 20P 50V 1 L202 J2611022011X COIL CHIP ELJFC220 1 C424 J3515600270X CC/CHIP 20P 50V 1 L205 J3613300011X BEAD 120X0HM 1 C426 J3515150270X CC/CHIP 20P 50V 1 L205 J3613300011X BEAD 120X0HM 1 C426 J3515200270X CC/CHIP 20P 50V 1 L207 J2631330065X BEAD FCM3216V 2K 1 C427 J3515200270X CC/CHIP 20P 50V 1 L208 J2631330085X BEAD FCM3216V 2K 1 C429 J3615200270X CC/CHIP 20P 50V 1 L209 J2631330085X BEAD FCM3216V 2K 1 C429 J3615200270X CC/CHIP 20P 50V 1 L209 J2631330085X BEAD FCM3216V 2K 1 C430 J3615500270X CC/CHIP 68P 2012 1 L209 J2631330085X BEAD FCM3216V 2K 1 C430 J3615500270X CC/CHIP 68P 2012 1 L209 J2631330085X BEAD FCM3216V 2K 1 C431 J3615200270X CC/CHIP 68P 2012 1 L303 J3616102011X COIL CHIP ELJFC220 1 C432 J3615680270X CC/CHIP 68P 2012 1 L303 J2611022011X COIL CHIP ELJFC220 1 C433 J3615600270X CC/CHIP 68P 2012 1 L303 J2611022011X COIL CHIP ELJFC220 1 C433 J3615600270X CC/CHIP 68P 2012 1 L330 J2611022011X COIL CHIP ELJFC220 1 C433 J3615600270X CC/CHIP 68P 2012 1 L330 J2611022011X COIL CHIP ELJFC220 1 C433 J3615600270X CC/CHIP 68P 2012 1 L333 J3616022011X COIL CHIP ELJFC220 1 C436 J3625104540X CC/CHIP 0.1U 25V Z 1 L334 J2631330085X BEAD FCM3216V 2K 1 C440 J3625104540X CC/CHIP 0.1U 25V Z 1 L334 J2631330085X				-				1
CA18								1
CA19								1
C421 J3515200270X CC/CHIP 20P 50V 1 J207 J3024102120X RES CHIP 1K 1/10W 1 C423 J3515500270X CC/CHIP 15P 50V 1 J207 J3024102120X RES CHIP 1K 1/10W 1 C423 J3515500270X CC/CHIP 16P 50V 1 L202 J2611022011X COIL CHIP ELJFC220 1 C424 J3515680270X CC/CHIP 68P 2012 1 L203 J2611022011X COIL CHIP ELJFC220 1 C425 J3515200270X CC/CHIP 20P 50V 1 L205 J2631330001X BEAD 120X0CHM 1 C426 J3515200270X CC/CHIP 16P 50V 1 L205 J2631330085X BEAD FCM3216V 2K 1 C428 J3515500270X CC/CHIP 20P 50V 1 L208 J2631330085X BEAD FCM3216V 2K 1 C428 J3515600270X CC/CHIP 20P 50V 1 L209 J2631330085X BEAD FCM3216V 2K 1 C429 J3515200270X CC/CHIP 20P 50V 1 L210 J2631330085X BEAD FCM3216V 2K 1 C429 J3515500270X CC/CHIP 16P 50V 1 L210 J2631330085X BEAD FCM3216V 2K 1 C430 J35151500270X CC/CHIP 16P 50V 1 L211 J2631330085X BEAD FCM3216V 2K 1 C431 J3515500270X CC/CHIP 20P 50V 1 L212 J2631330085X BEAD FCM3216V 2K 1 C433 J3515200270X CC/CHIP 20P 50V 1 L212 J2631330085X BEAD FCM3216V 2K 1 C433 J3515200270X CC/CHIP 20P 50V 1 L332 J2611022011X COIL CHIP ELJFC220 1 C433 J3515200270X CC/CHIP 20P 50V 1 L332 J2611022011X COIL CHIP ELJFC220 1 C434 J35151500270X CC/CHIP 20P 50V 1 L332 J2611022011X COIL CHIP ELJFC220 1 C435 J3525104540X CC/CHIP 0.1U 25V 2 L336 J2631330085X BEAD FCM3216V 2K 1 C436 J3525104540X CC/CHIP 0.1U 25V 2 L336 J2631330085X BEAD FCM3216V 2K 1 C440 J3470010036X CE 100U F16V 1 L354 J2631330085X BEAD FCM3216V 2K 1 C441 J3525104540X CC/CHIP 0.1U 25V 2 L336 J2631330085X BEAD FCM3216V 2K 1 C453 J3525104540X CC/CHIP 0.1U 25V 2 L336 J2631330085X BEAD FCM3216V 2K 1 C453 J3470010036X CE 10U 16V M 3*5.2 1 L346 J2631330085X BEAD FCM3216V 2K 1 C453 J3525104540X CC/CHIP 0.1U 25V 2 L336 J2631330085X BEAD FCM3216V 2K 1 C453 J3525104540X CC/CHIP 0.1U 25V 2 L340 J263133008		J3515200270X	CC/CHIP 20P 50V	1		J3024102120X	RES CHIP 1K 1/10W	1
C422 J3515150270X CC/CHIP 15P 50V 1 J207 J3024102120X RES CHIP 1K 1/10W 1 C423 J3515200270X CC/CHIP 20P 50V 1 L202 J2611022011X COIL CHIP ELJFC220 1 L245 J3515680270X CC/CHIP 68P 2012 1 L203 J2611022011X COIL CHIP ELJFC220 1 C425 J3515200270X CC/CHIP 1P5 50V 1 L205 J2631300011X BEAD 120X0HM 1 C426 J3515150270X CC/CHIP 1P5 50V 1 L205 J2631330085X BEAD FCM3216V 2K 1 C427 J3515200270X CC/CHIP 20P 50V 1 L208 J2631330085X BEAD FCM3216V 2K 1 C428 J3515680270X CC/CHIP 20P 50V 1 L209 J2631330085X BEAD FCM3216V 2K 1 C428 J3515680270X CC/CHIP 20P 50V 1 L210 J2631330085X BEAD FCM3216V 2K 1 C430 J3515150270X CC/CHIP 19F 50V 1 L211 J2631330085X BEAD FCM3216V 2K 1 C431 J3515200270X CC/CHIP 20P 50V 1 L211 J2631330085X BEAD FCM3216V 2K 1 C431 J3515200270X CC/CHIP 19F 50V 1 L211 J2631330085X BEAD FCM3216V 2K 1 C431 J3515200270X CC/CHIP 20P 50V 1 L212 J2631330085X BEAD FCM3216V 2K 1 C432 J3515680270X CC/CHIP 20P 50V 1 L212 J2631330085X BEAD FCM3216V 2K 1 C432 J351560270X CC/CHIP 20P 50V 1 L332 J2611022011X COIL CHIP ELJFC220 1 C433 J3515200270X CC/CHIP 19F 50V 1 L332 J2611022011X COIL CHIP ELJFC220 1 C433 J3515200270X CC/CHIP 19F 50V 1 L332 J2611022011X COIL CHIP ELJFC220 1 C434 J3515150270X CC/CHIP 0.1U 25V Z 1 L334 J2631330085X BEAD FCM3216V 2K 1 C440 J3525104540X CC/CHIP 0.1U 25V Z 1 L334 J2631330085X BEAD FCM3216V 2K 1 C440 J3470010106X CE 100UF 16V 1 L380 J2631330085X BEAD FCM3216V 2K 1 C440 J3470010106X CE 100UF 16V 1 L380 J2631330085X BEAD FCM3216V 2K 1 C450 J3470010036X CE 10U 16V M 3*5.2 1 L334 J2631330085X BEAD FCM3216V 2K 1 C450 J3470010036X CE 10U 16V M 3*5.2 1 L340 J2631330085X BEAD FCM3216V 2K 1 C450 J3470010036X CE 10U 16V M 3*5.2 1 L340 J2631330085X BEAD FCM3216V 2K 1 C450 J3470010036X CE 10U 16V M 3*5.2 1 L340 J2631330085X BEAD FCM3216V 2K 1 C450 J3470010036X CE 10U 16V M 3*5.2 1 L340 J2631330085X BEAD FCM3216V 2K 1 C450 J3470010036X CE 10U 16V M 3*5.2 1 L340 J2631330085X BEAD FCM3216V 2K 1 C450 J3470010036X CE 10U 16V M 3*5.2 1 L341 J2631330085X BEAD FCM3216V 2K 1 C460 J347001036X CE 10U 16V M 3*5.2 1 L341 J263								1
C423								1
C424 J3515860270X CC/CHIP 20P 50V 1 L205 J2631300011X BEAD 120XOHM 1 C426 J35151500270X CC/CHIP 15P 50V 1 L205 J2631300011X BEAD 120XOHM 1 C426 J35151500270X CC/CHIP 15P 50V 1 L208 J2631330085X BEAD FCM3216V 2K 1 C427 J3515200270X CC/CHIP 20P 50V 1 L208 J2631330085X BEAD FCM3216V 2K 1 C428 J3515680270X CC/CHIP 68P 2012 1 L209 J2631330085X BEAD FCM3216V 2K 1 C429 J3515200270X CC/CHIP 68P 2012 1 L210 J2631330085X BEAD FCM3216V 2K 1 C430 J3515150270X CC/CHIP 15P 50V 1 L211 J2631330085X BEAD FCM3216V 2K 1 C431 J3515200270X CC/CHIP 20P 50V 1 L211 J2631330085X BEAD FCM3216V 2K 1 C432 J3515680270X CC/CHIP 20P 50V 1 L212 J2631330085X BEAD FCM3216V 2K 1 C432 J3515680270X CC/CHIP 20P 50V 1 L212 J2631330085X BEAD FCM3216V 2K 1 C433 J3515200270X CC/CHIP 68P 2012 1 L330 J2611022011X COIL CHIP ELJFC220 1 C433 J3515200270X CC/CHIP 20P 50V 1 L332 J2611022011X COIL CHIP ELJFC220 1 C434 J3515150270X CC/CHIP 15P 50V 1 L332 J2611022011X COIL CHIP ELJFC220 1 C435 J3525104540X CC/CHIP 15P 50V 1 L333 J2611022011X COIL CHIP ELJFC220 1 C436 J3525104540X CC/CHIP 0.1U 25V Z 1 L334 J2631330085X BEAD FCM3216V 2K 1 C440 J3470010106X CE 100UF 16V 1 L336 J2631330085X BEAD FCM3216V 2K 1 C441 J3525104540X CC/CHIP 0.1U 25V Z 1 L335 J2631330085X BEAD FCM3216V 2K 1 C441 J3525104540X CC/CHIP 0.1U 25V Z 1 L335 J2631330085X BEAD FCM3216V 2K 1 C450 J3470010036X CE 10U 16V M 3*5.2 1 L340 J2631330085X BEAD FCM3216V 2K 1 C451 J3525104540X CC/CHIP 0.1U 25V Z 1 L339 J2631330085X BEAD FCM3216V 2K 1 C452 J3525104540X CC/CHIP 0.1U 25V Z 1 L3340 J2631330085X BEAD FCM3216V 2K 1 C453 J3470010036X CE 10U 16V M 3*5.2 1 L340 J2631330085X BEAD FCM3216V 2K 1 C454 J3525104540X CC/CHIP 0.1U 25V Z 1 L349 J2631330085X BEAD FCM3216V 2K 1 C455 J3470010036X CE 10U 16V M 3*5.2 1 L341 J2631330085X BEAD FCM3216V 2K 1 C456 J3470031036X CE 10U 16V M 3*5.2 1 L341 J2631330085X BEAD FCM3216V 2K 1 C456 J3470010036X CE 10U 16V M 3*5.2 1 L342 J2631330085X BEAD FCM3216V 2K 1 C460 J3470010036X CE 10U 16V M 3*5.2 1 L340 J2631020011X COIL CHIP ELJFC220 1 C487 J3525104540X CC/CHIP 0.1U 25V								1
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C460 J3470010036X CE 10U 16V M 3*5.2 1 L344 J2631330085X BEAD FCM3216V 2K 1 C461 J3525104540X CC/CHIP 0.1U 25V Z 1 L400 J2611022011X COIL CHIP ELJFC220 1 C486 J3470033116X CE 330U 6.3V M 8*6 1 L401 J2611022011X COIL CHIP ELJFC220 1 C487 J3525104540X CC/CHIP 0.1U 25V Z 1 L402 J2611022011X COIL CHIP ELJFC220 1 C488 J3525104540X CC/CHIP 0.1U 25V Z 1 L403 J2611022011X COIL CHIP ELJFC220 1 C489 J3525104540X CC/CHIP 0.1U 25V Z 1 L404 J2611082921X COIL CHIP 8.2UH 1 C490 J3525104540X CC/CHIP 0.1U 25V Z 1 L405 J2611082921X COIL CHIP 8.2UH 1 C495 J3470033116X CE 330U 6.3V M 8*6 1 L406 J2611082921X COIL CHIP 8.2UH 1 C496 J3525104540X CC/CHIP 0.1U 25V Z 1 L407 J2611082921X COIL CHIP 8								1
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C486 J3470033116X CE 330U 6.3V M 8*6 1 L401 J2611022011X COIL CHIP ELJFC220 1 C487 J3525104540X CC/CHIP 0.1U 25V Z 1 L402 J2611022011X COIL CHIP ELJFC220 1 C488 J3525104540X CC/CHIP 0.1U 25V Z 1 L403 J2611022011X COIL CHIP ELJFC220 1 C489 J3525104540X CC/CHIP 0.1U 25V Z 1 L404 J2611082921X COIL CHIP 8.2UH 1 C490 J3525104540X CC/CHIP 0.1U 25V Z 1 L405 J2611082921X COIL CHIP 8.2UH 1 C495 J3470033116X CE 330U 6.3V M 8*6 1 L406 J2611082921X COIL CHIP 8.2UH 1 C496 J3525104540X CC/CHIP 0.1U 25V Z 1 L407 J2611082921X COIL CHIP 8.2UH 1								1 1
C487 J3525104540X CC/CHIP 0.1U 25V Z 1 L402 J2611022011X COIL CHIP ELJFC220 1 C488 J3525104540X CC/CHIP 0.1U 25V Z 1 L403 J2611022011X COIL CHIP ELJFC220 1 C489 J3525104540X CC/CHIP 0.1U 25V Z 1 L404 J2611082921X COIL CHIP 8.2UH 1 C490 J3525104540X CC/CHIP 0.1U 25V Z 1 L405 J2611082921X COIL CHIP 8.2UH 1 C495 J3470033116X CE 330U 6.3V M 8*6 1 L406 J2611082921X COIL CHIP 8.2UH 1 C496 J3525104540X CC/CHIP 0.1U 25V Z 1 L407 J2611082921X COIL CHIP 8.2UH 1								1
C488 J3525104540X CC/CHIP 0.1U 25V Z 1 L403 J2611022011X COIL CHIP ELJFC220 1 C489 J3525104540X CC/CHIP 0.1U 25V Z 1 L404 J2611082921X COIL CHIP 8.2UH 1 C490 J3525104540X CC/CHIP 0.1U 25V Z 1 L405 J2611082921X COIL CHIP 8.2UH 1 C495 J3470033116X CE 330U 6.3V M 8*6 1 L406 J2611082921X COIL CHIP 8.2UH 1 C496 J3525104540X CC/CHIP 0.1U 25V Z 1 L407 J2611082921X COIL CHIP 8.2UH 1								1
C490 J3525104540X CC/CHIP 0.1U 25V Z 1 L405 J2611082921X COIL CHIP 8.2UH 1 C495 J3470033116X CE 330U 6.3V M 8*6 1 L406 J2611082921X COIL CHIP 8.2UH 1 C496 J3525104540X CC/CHIP 0.1U 25V Z 1 L407 J2611082921X COIL CHIP 8.2UH 1	C488				L403		COIL CHIP ELJFC220	1
C495 J3470033116X CE 330U 6.3V M 8*6 1 L406 J2611082921X COIL CHIP 8.2UH 1 C496 J3525104540X CC/CHIP 0.1U 25V Z 1 L407 J2611082921X COIL CHIP 8.2UH 1								1
C496 J3525104540X CC/CHIP 0.1U 25V Z 1 L407 J2611082921X COIL CHIP 8.2UH 1								1
								1 1

Ref. Designator	Part Number	Description	Qty	Ref. Designator	Part Number	Description	Qty
L409	J2611082921X	COIL CHIP 8.2UH	1	R211	J3024472120X	RES CHIP 4K7 1/10W	1
L410	J2611082921X	COIL CHIP 8.2UH	1	R212	J3024103120X	RES CHIP 10K 1/10W	1
L411	J2611082921X	COIL CHIP 8.2UH	1	R213	J3024560120X	RES CHIP 56 1/10WJ	1
L412	J2611082921X	COIL CHIP 8.2UH	1	R214	J3024000120X	RES 0 OHM 1/10W J	1
L413	J2611082921X	COIL CHIP 8.2UH	1	R216	J3024103120X	RES CHIP 10K 1/10W	1
L414	J2611082921X	COIL CHIP 8.2UH	1	R218	J30241873175	RES 18K7 1/10 1%	1
L415 L416	J2611082921X J2631300011X	COIL CHIP 8.2UH BEAD 120XOHM	1 1	R219 R222	J30241153175 J3024000120X	RES 11K5 1/10 1% RES 0 OHM 1/10W J	1
L417	J2631300011X J2631300011X	BEAD 120XOHM	1	R223	J3024000120X J3024000120X	RES 0 OHM 1/10W J	1
L417 L418	J2631300011X	BEAD 120XOHM	1	R224	J2631320095X	BEAD FCM2012V-60	1
L419	J2631300011X	BEAD 120XOHM	1	R228	J3024331120X	R-CHIP 330 2012J	i
L420	J2611022011X	COIL CHIP ELJFC220	1	R229	J3024105120X	RES CHIP 1M 1/10WJ	1
L421	J2611022011X	COIL CHIP ELJFC220	1	R230	J3024103120X	RES CHIP 10K 1/10W	1
L422	J2631330085X	BEAD FCM3216V 2K	1	R231	J3024103120X	RES CHIP 10K 1/10W	1
L423	J3927201111X	EMI FILTER STC104B	1	R232	J3024103120X	RES CHIP 10K 1/10W	1
L450	J2631300011X	BEAD 120XOHM	1	R233	J3024103120X	RES CHIP 10K 1/10W	1
L452	J2631300011X	BEAD 120XOHM	1	R234	J2631320065X	FCM2012V-221T07	1
Q201	J2041020201X	TR KTC3875S SOT23	1 1	R235	J3024470120X	RES CHIP 47 1/10W	1
Q202 Q204	J2041020201X	TR KTC3875S SOT23 TR KTC3875S SOT23	1	R236 R237	J3024470120X J3024470120X	RES CHIP 47 1/10W RES CHIP 47 1/10W	1
Q20 4 Q205	J2041020201X J2041020201X	TR KTC3875S SOT23	1	R237 R238	J2631320065X	FCM2012V-221T07	1
Q205 Q206	J2041020201X J2041020201X	TR KTC3875S SOT23	1	R239	J2631320065X	FCM2012V-221T07	1
Q207	J2041220102X	TR NPN DTC114YKA	1	R240	J3024470120X	RES CHIP 47 1/10W	1
Q208	J2041220102X	TR NPN DTC114YKA	1	R243	J2631320245X	BEAD FCM2012C-121T	1
RA201	J3029470120X	RES CHIP 47R 2010	1	R244	J3024000120X	RES 0 OHM 1/10W J	1
RA202	J3029470120X	RES CHIP 47R 2010	1	R247	J3024000120X	RES 0 OHM 1/10W J	1
RA203	J3029470120X	RES CHIP 47R 2010	1	R248	J3024000120X	RES 0 OHM 1/10W J	1
RA204	J3029470120X	RES CHIP 47R 2010	1	R249	J3024472120X	RES CHIP 4K7 1/10W	1
RA205	J3029470120X	RES CHIP 47R 2010	1	R250	J3024472120X	RES CHIP 4K7 1/10W	1
RA206	J3029470120X	RES CHIP 47R 2010	1	R269	J3024101120X	RES CHIP 100 1/10W	1
RA207	J3029470120X	RES CHIP 47R 2010	1	R270	J3024101120X	RES CHIP 100 1/10W	1
RA208 RA209	J3029470120X	RES CHIP 47R 2010	1 1	R271 R272	J2631320075X	FCM2012V-301T07	1
RA209 RA210	J3029470120X J3029470120X	RES CHIP 47R 2010 RES CHIP 47R 2010	1	R272 R277	J2631320075X J3024103120X	FCM2012V-301T07 RES CHIP 10K 1/10W	1
RA211	J3029470120X	RES CHIP 47R 2010	1	R278	J3024103120X	RES CHIP 10K 1/10W	1
RA212	J3029470120X	RES CHIP 47R 2010		R279	J3024103120X	RES CHIP 10K 1/10W	1
RA213	J3029470120X	RES CHIP 47R 2010	1	R280	J3024103120X	RES CHIP 10K 1/10W	1
RA214	J3029470120X	RES CHIP 47R 2010	1	R281	J3024103120X	RES CHIP 10K 1/10W	1
RA215	J3029470120X	RES CHIP 47R 2010	1	R283	J3024472120X	RES CHIP 4K7 1/10W	1
RA216	J3029470120X	RES CHIP 47R 2010	1	R286	J3024470120X	RES CHIP 47 1/10W	1
RM201	J3024221120X	R-CHIP 220 2012J	1	R289	J2631320105X	FCM2012H-102T04	1
RM202	J3024221120X	R-CHIP 220 2012J	1	R301	J3024000120X	RES 0 OHM 1/10W J	1
RM216	J3024103120X	RES CHIP 10K 1/10W RES CHIP 10K 1/10W	1	R301 R330	J3024122120X	RES CHIP 1K2 1/10W BEAD FCM3216V 2K	1
RM217 RM218	J3024103120X J3024473120X	RES CHIP 10K 1/10W	1 1	R332	J2631330085X J2631330085X	BEAD FCM3216V 2K	1
RM219	J3024473120X J3024473120X	RES CHIP 47K 1/10W	1	R333	J2631320125X	FCM2012H-202T02	1
RM220	J3024473120X	RES CHIP 47K 1/10W	1	R334	J2631320125X	FCM2012H-202T02	i
RM221	J3024473120X	RES CHIP 47K 1/10W	1	R335	J2631320015X	FCM2012K-202T02	1
RM222	J3024103120X	RES CHIP 10K 1/10W	1	R345	J3024000120X	RES 0 OHM 1/10W J	1
RM223	J2631320105X	FCM2012H-102T04	1	R346	J3024000120X	RES 0 OHM 1/10W J	1
RM224	J2631320105X	FCM2012H-102T04	1	R347	J3024473120X	RES CHIP 47K 1/10W 10	1
RM225	J2631320105X	FCM2012H-102T04	1	R348	J3024473120X	RES CHIP 47K 1/10W	1
RM226	J2631320105X	FCM2012H-102T04	1	R349	J2631320065X	FCM2012V-221T07	1
RM227	J2631320105X	FCM2012H-102T04	1	R350	J3024470120X	RES CHIP 47 1/10W	1
RM228	J2631320105X	FCM2012H-102T04	1	R351	J2631320065X	FCM2012V-221T07	1
RM229 RM230	J2631320105X	FCM2012H-102T04	1 1	R352 R353	J3024470120X J3024470120X	RES CHIP 47 1/10W RES CHIP 47 1/10W	1
RM232	J2631320105X J3024103120X	FCM2012H-102T04 RES CHIP 10K 1/10W	1	R354	J3024470120X	RES CHIP 47 1/10W	1
RX06	J3024000120X	RES 0 OHM 1/10W J	1	R355	J3024470120X	RES CHIP 47 1/10W	1
RX08	J3024103120X	RES CHIP 10K 1/10W	1	R356	J3024470120X	RES CHIP 47 1/10W	1
R201	J3024182120X	RES CHIP 1K8 1/10W	1	R357	J3024473120X	RES CHIP 47K 1/10W	1
R202	J3024182120X	RES CHIP 1K8 1/10W	1	R358	J3024473120X	RES CHIP 47K 1/10W	1
R203	J3024103120X	RES CHIP 10K 1/10W	1	R359	J3024473120X	RES CHIP 47K 1/10W	1
R205	J3024103120X	RES CHIP 10K 1/10W	1	R360	J3024473120X	RES CHIP 47K 1/10W	1
R206	J3024103120X	RES CHIP 10K 1/10W	1	R361	J3024473120X	RES CHIP 47K 1/10W	1
R207	J3024103120X	RES CHIP 10K 1/10W	1	R362	J3024473120X	RES CHIP 47K 1/10W	1
R208	J3024103120X	RES CHIP 10K 1/10W	1	R363	J3024473120X	RES CHIP 47K 1/10W	1
R209	J3024103120X	RES CHIP 10K 1/10W	1	R366	J3024472120X	RES CHIP 4K7 1/10W	1
R210	J3024472120X	RES CHIP 4K7 1/10W	1	R367	J3024472120X	RES CHIP 4K7 1/10W	1

Ref. Designator	Part Number	Description	Qty	Ref. Designator	Part Number	Description	Qty
R368 R369	J3024472120X J3024472120X	RES CHIP 4K7 1/10W RES CHIP 4K7 1/10W	1	FRONT PCB			
R370 R400	J3024472120X J3024479120X	RES CHIP 4K7 1/10W R-CHIP 4R7 2012J	1 1	050	J67300009000	SPONGE FL	1
R401	J3024479120X	R-CHIP 4R7 2012J	1	070	J67300010000	SPONGE FL	1
R402	J3024479120X	R-CHIP 4R7 2012J	1	090	20932870XX	AC PRI LABEL QC CH	1
R403	J3024479120X	R-CHIP 4R7 2012J	1	100	J60300021000	BKT POWER	1
R404 R405	J3024391120X	R-CHIP 390 2012J	1 1	100 C2 A-A	J60300024000	BKT PHONE HOOK UP 90MM 1P 26	1
R405 R406	J3024391120X J3024391120X	R-CHIP 390 2012J R-CHIP 390 2012J	1	BK901	J4141302001Y J5222000950X	BKT GND SPTE	1
R407	J3024681120X	RES CHIP 680 1/10W	1	CC902	J4111131500X	CARD 1.0 13P 150	i 1
R408	J3024391120X	R-CHIP 390 2012J	1	CN901	J4350009906X	CNT 5P 240 2.0 #26	1
R409	J3024391120X	R-CHIP 390 2012J	1	CN902	J4422101327X	FPC PLUG 1.0 13P	1
R410 R411	J3024681120X J3024391120X	RES CHIP 680 1/10W R-CHIP 390 2012J	1 1	CN903 CN903	J4350009905X J4350009912X	CNT 4P 140 2.0 #26 CNT 2P 140 2.0 #26	1
R412	J3024391120X	R-CHIP 390 2012J	1	CN904	J4350009907X	CNT 3P 600 2.0 #26	1
R413	J3024391120X	R-CHIP 390 2012J	1	CN904	J4350009910X	CNT 4P 600 2.0 #26	1
R414	J3024471120X	RES CHIP 470 1/10W	1	CN905	J4350009908X	CNT 500 #18 7.92	1
R414	J3024511120X	RES CHIP 510 1/10W	1	CP801	J4420030340X	CNT PLUG 2.0 ST 3P	1
R415 R415	J3024221120X J3024271120X	R-CHIP 220 2012J R-CHIP 270 1/10W J	1 1	CP901 CP903	J4420030340X J4420030240X	CNT PLUG 2.0 ST 3P CON WAFER 2P 2.0	1
R416	J3024271120X J3024391120X	R-CHIP 390 2012J	1	CP903	J4420030240X	CNT PLUG 4P 2.0MM	1
R417	J3024391120X	R-CHIP 390 2012J	1	CP904	J4420030340X	CNT PLUG 2.0 ST 3P	1
R418	J3024391120X	R-CHIP 390 2012J	1	CP904	J4420030440X	CNT PLUG 4P 2.0MM	1
R419	J3024681120X	RES CHIP 680 1/10W 10	1	C901	J3470947030X	CE 47U 16V	1
R420 R421	J3024391120X	R-CHIP 390 2012J R-CHIP 390 2012J	1 1	C907 C907	J3471247116X J3471347116X	CE SR470U 6V3 M8*9 CE SS470U 6V3 M8*9	1 1
R421 R422	J3024391120X J3024391120X	R-CHIP 390 2012J	1	C907 C918	J3471347116X	CE SS470U 6V3 M8*9	1
R423	J3024221120X	R-CHIP 220 2012J	1	C919	J3471247116X	CE SR470U 6V3 M8*9	i 1
R424	J3024391120X	R-CHIP 390 2012J	1	C920	J3471347116X	CE SS470U 6V3 M8*9	1
R425	J3024391120X	R-CHIP 390 2012J	1	DG901	J44302000500	2P OO JE020059	1
R426	J3024391120X	R-CHIP 390 2012J	1	DG901	J44320000005	JACK REMOTEIH 3.5*	1
R427 R428	J3024681120X J3024479120X	RES CHIP 680 1/10W 10 R-CHIP 4R7 2012J	1 1	D904 D904	J2302310012X J2305211012X	LED RED/GREEN 5 LED LTL-1CHGE 3RED	1
R429	J3024479120X	R-CHIP 4R7 2012J	1	D907	J2221216000X	DIODE RECT IN4004	1
R430	J3024479120X	R-CHIP 4R7 2012J	1	D908	J2221216000X	DIODE RECT IN4004	1
R431	J3024479120X	R-CHIP 4R7 2012J	1	EC901	J2632410025X	EMI CORE W5 ZP160R	1
R440	J3024000120X	RES 0 OHM 1/10W J	1	FC901	J2632400015X	FERRITE CORE CLAMP	1
R450 R451	J3024473120X J3024473120X	RES CHIP 47K 1/10W RES CHIP 47K 1/10W	1 1	FL901 FL901	J2350220010X J2353220010X	VFD HNV-11SM07 VFD HNV-11SM09	1
R452	J3024473120X	RES CHIP 47K 1/10W	1	FL901	J2353220050X	VFD HNV-11SM13 SAM	1
R453	J3024473120X	RES CHIP 47K 1/10W	1	HP901	J44329000102	JACK MIC 9P GOLD	1
R458	J3024473120X	RES CHIP 47K 1/10W	1	IC901	55520910	IC CPU CXP82316-53	1
R459	J3024473120X	RES CHIP 47K 1/10W	1	IC902	J2112505034X	IC KIA7042P 4V2	1 1
R460 R461	J3024473120X J3024000120X	RES CHIP 47K 1/10W RES 0 OHM 1/10W J	1 1	LD901 LD902	J2301213022X J2301213022X	LED GN LTL1CHGEC 3 LED GN LTL1CHGEC 3	1
R463	J3024000120X	RES 0 OHM 1/10W J	1	LD902	J2301213022X J2301213022X	LED GN LTL1CHGEC 3	1
R465	J3024000120X	RES 0 OHM 1/10W J	1	LD904	J2301213022X	LED GN LTL1CHGEC 3	1
R473	J3024391120X	R-CHIP 390 2012J	1	LD905	J2301213022X	LED GN LTL1CHGEC 3	1
R474	J3024681120X	RES CHIP 680 1/10W	1	LD906	J2301213022X	LED GN LTL1CHGEC 3	1
R475 R476	J3024391120X J3024681120X	R-CHIP 390 2012J RES CHIP 680 1/10W 10	1 1	LD907 LD908	J2301213022X J2301213022X	LED GN LTL1CHGEC 3 LED GN LTL1CHGEC 3	1 1
R477	J3024391120X	R-CHIP 390 2012J	1	LD909	J2301213022X J2301213022X	LED GN LTL1CHGEC 3	1
R478	J3024391120X	R-CHIP 390 2012J	1	LD910	J2301213022X	LED GN LTL1CHGEC 3	1
R479	J3024391120X	R-CHIP 390 2012J	1	LD911	J2301213022X	LED GN LTL1CHGEC 3	1
R480	J3024104120X	RES CHIP 100K 1/10	1	LD912	J2301213022X	LED GN LTL1CHGEC 3	1
R481 R484	J3024102120X J3024470120X	RES CHIP 1K 1/10W RES CHIP 47 1/10W	1 1	LD913 LD914	J2301213022X J2301213022X	LED GN LTL1CHGEC 3 LED GN LTL1CHGEC 3	1 1
R485	J3024470120X	RES CHIP 47 1/10W	1	LD915	J2301213022X	LED GN LTL1CHGEC 3	1
R486	J3024470120X	RES CHIP 47 1/10W	1	LD916	J2301213022X	LED GN LTL1CHGEC 3	1
R487	J3024470120X	RES CHIP 47 1/10W	1	LD917	J2301213022X	LED GN LTL1CHGEC 3	1
R488	J3024470120X	RES CHIP 47 1/10W	1	LD918	J2301213022X	LED GN LTL1CHGEC 3	1
R489 R490	J3024470120X J3024470120X	RES CHIP 47 1/10W RES CHIP 47 1/10W	1 1	OP901 PSW90	J2123233001X J46203000101	IC LTV817 PWR SW SDDLB14700	1
R490 R492	J3024470120X J3024102120X	RES CHIP 1K 1/10W	1	RM901	J2411120014X	S-REMOTE 38KHZ JRC	1
R493	J3024104120X	RES CHIP 100K 1/10	1	RM901	J2411320024X	REOTE RPM6938 38KH	1
				RM901	J2411340013X	RMC LTM-97AT-36N 3	1
				SL901	J46100000401	SW SSSF110300	1
				VR901	J32214000401	VOLUM RK09K12A ALP	1

Ref. Designator	Part Number	Description	Qty	Ref. Designator	Part Number	Description	Qty
C2 WIRE1	J4134300701Y	HOOK-UP 60MM #24BK	1	D908	J2242251011X	D-CHIP RB501V-40 U	1
C2 WIRE1	J4141302001X	HOOK-UP 200 1P #26	1	J941	J3024000120X	RES 0 OHM 1/10W J	1
C2 WIRE2	J4134300701Y	HOOK-UP 60MM #24BK	1	J942	J3024000120X	RES 0 OHM 1/10W J	1
C2 WIRE2	J4134300851Y	HOOK-UP 70MM #24BK	1	J943	J3024000120X	RES 0 OHM 1/10W J	1
C2 WIRE3	J4141301001X	WIRE 1P 100 #24	1	J944	J3024000120X	RES 0 OHM 1/10W J	1
WIRE3	J4141301201X	WIRE 120 1P #24BK	1	L901	J2611022011X	COIL CHIP ELJFC220	1
WIRE3 WIRE4	J4141301401X J4141301401X	LUG 140 1P #24 BK LUG 140 1P #24 BK	1 1	L902 L903	J2631330085X J2631330085X	BEAD FCM3216V 2K BEAD FCM3216V 2K	1
C2 WIRE5	J4141302001Y	HOOK UP 90MM 1P 26	1	L904	J2631330085X	BEAD FCM3216V 2KP	1
X901	J3911030000X	RESON ZTT10MHZ CQ	1	L905	J3927201111X	EMI FILTER STC104B	1
C901	J3470947030X	CE 47U 16V	1	L906	J3927201111X	EMI FILTER STC104B	1
C906	J3470910110X	CE 100UF 6.3V	1	L908	J2631330085X	BEAD FCM3216V 2K	1
C909	J3470910970X	CE 1U 50V M SS 5*7	1	L909	J2631330085X	BEAD FCM3216V 2K	1
C912	J3513561170X	CC/DISC SL 560P50V	1	L912	J2631330085X	BEAD FCM3216V 2K	1
C913	J3513561170X	CC/DISC SL 560P50V	1	L913	J2631330085X	BEAD FCM3216V 2K	1
C914	J3523104540X	CAP C/D/T .1U 25V	1	L914	J2631330085X	BEAD FCM3216V 2K	1
C915	J3470947030X	CE 47U 16V	1	L915	J2631330085X	BEAD FCM3216V 2K	1
C916	J3471347116X	CE SS470U 6V3 M8*9	1	Q902	J2041220102X	TR NPN DTC114YKA	1
C917	J3470110211X	CE 1000UF 6.3V	1	Q904	J2041220102X	TR NPN DTC114YKA	1
IC902	J2112505034X J2021000601X	IC KIA7042P 4V2	1 1	Q906 Q913	J2041220102X J2041220102X	TR NPN DTC114YKA TR NPN DTC114YKA	1
Q907 Q908	J2021000601X J2021000601X	TR PNP MPSA56 Y TR PNP MPSA56 Y	1	Q913 Q914	J2041220102X J2041200102X	TR PNP DTA114YKA	1
Q909	J2021000601X	TR PNP MPSA56 Y	1	Q915	J2041220102X J2041220102X	TR NPN DTC114YKA	1
Q914	J2021200501X	TR PNP KRA107M	1	R901	J3024101120X	RES CHIP 100 1/10W	i 1
SW901	J46500500002	SW TACT	1	R902	J3024103120X	RES CHIP 10K 1/10W	1
SW901	J46500500501	SW TACT SKQNAE	1	R909	J3024221120X	R-CHIP 220 2012J	1
SW902	J46500500501	SW TACT SKQNAE	1	R910	J3024181120X	RES CHIP 180 1/10W	1
SW903	J46500500002	SW TACT	1	R910	J3024681120X	RES CHIP 680 1/10W	1
SW903	J46500500501	SW TACT SKQNAE	1	R911	J3024182120X	RES CHIP 1K8 1/10W	1
SW904	J46500500501	SW TACT SKQNAE	1	R911	J3024242120X	RES CHIP 2K4 1/10	1
SW905	J46500500002	SW TACT	1	R911	J3024332120X	RES CHIP 3K3 1/10W	1
SW905	J46500500501	SW TACT SKQNAE	1	R912	J3024682120X	RES CHIP 6K8 1/10W	1
SW906	J46500500501	SW TACT SKQNAE SW TACT	1 1	R913 R913	J3024203120X	RES CHIP 20K 1/10W RES CHIP 4K7 1/10W	1
SW907 SW907	J46500500002 J46500500501	SW TACT SKQNAE	1	R913	J3024472120X J3024822120X	R-CHIP 8K2 1/10W J	1
SW909	J46500500000	SW TACT SKQNAL	1	R914	J3024022120X J3024103120X	RES CHIP 10K 1/10W	1
SW909	J46500500501	SW TACT SKQNAE	1	R914	J3024333120X	RES CHIP 33K 1/10W	i 1
SW911	J46500500002	SW TACT	1	R915	J3024333120X	RES CHIP 33K 1/10W	1
SW911	J46500500501	SW TACT SKQNAE	1	R916	J3024184120X	R-CHIP 180K 2012J	1
SW912	J46500500501	SW TACT SKQNAE	1	R921	J3024182120X	RES CHIP 1K8 1/10W	1
SW913	J46500500002	SW TACT	1	R921	J3024242120X	RES CHIP 2K4 1/10	1
SW913	J46500500501	SW TACT SKQNAE	1	R921	J3024332120X	RES CHIP 3K3 1/10W	1
SW914	J46500500501	SW TACT SKQNAE	1	R922	J3024332120X	RES CHIP 3K3 1/10W	1
SW915	J46500500002	SW TACT	1	R922	J3024682120X	RES CHIP 6K8 1/10W	1
SW915	J46500500501	SW TACT SKQNAE	1	R923	J3024203120X J3024472120X	RES CHIP 20K 1/10W	1
SW916 SW917	J46500500501 J46500500002	SW TACT SKQNAE SW TACT	1 1	R923 R923	J3024472120X J3024822120X	RES CHIP 4K7 1/10W R-CHIP 8K2 1/10W J	1
SW917	J46500500501	SW TACT SKQNAE	1	R924	J3024022120X J3024103120X	RES CHIP 10K 1/10W	1
SW919	J46500500002	SW TACT	1	R924	J3024333120X	RES CHIP 33K 1/10W	1
SW919	J46500500501	SW TACT SKQNAE	1	R925	J3024333120X	RES CHIP 33K 1/10W	1
SW921	J46500500002	SW TACT	1	R926	J3024223120X	RES CHIP 22K 1/10W	1
SW921	J46500500501	SW TACT SKQNAE	1	R926	J3024473120X	RES CHIP 47K 1/10W	1
SW924	J46500500002	SW TACT	1	R927	J3024223120X	RES CHIP 22K 1/10W	1
SW924	J46500500501	SW TACT SKQNAE	1	R927	J3024473120X	RES CHIP 47K 1/10W	1
SW927	J46500500002	SW TACT	1	R931	J3024242120X	RES CHIP 2K4 1/10	1
SW927	J46500500501	SW TACT SKQNAE	1	R931	J3024332120X	RES CHIP 3K3 1/10W	1
SW930	J46500500002	SW TACT	1	R932	J3024682120X	RES CHIP 6K8 1/10W	1
SW930	J46500500501	SW TACT SKQNAE	1	R933	J3024203120X	RES CHIP 20K 1/10W	1
SW931 SW931	J46500500002 J46500500501	SW TACT SW TACT SKQNAE	1 1	R933 R934	J3024822120X J3024333120X	R-CHIP 8K2 1/10W J RES CHIP 33K 1/10W	1 1
C903	3525104540X	CC/CHIP 0.1U 25V Z	1	R938	J3024333120X J3024103120X	RES CHIP 10K 1/10W	1
C903 C904	J3525104540X	CC/CHIP 0.10 25V Z	1	R939	J3024103120X J3024103120X	RES CHIP 10K 1/10W	1
C905	J3525104540X	CC/CHIP 0.1U 25V Z	1	R940	J3024103120X	RES CHIP 10K 1/10W	1
C908	J3525104540X	CC/CHIP 0.1U 25V Z	1	R941	J3024103120X	RES CHIP 10K 1/10W	1
C911	J3525104540X	CC/CHIP 0.1U 25V Z	1	R942	J3024103120X	RES CHIP 10K 1/10W	1
C916	J3525104540X	CC/CHIP 0.1U 25V Z	1	R943	J3024473120X	RES CHIP 47K 1/10W	1
D906	J2242510011X	D SCHOTTKY RB501V-	1	R944	J3024103120X	RES CHIP 10K 1/10W	1
D906	J2244010104X	DIODE CHIP 1SS355	1	R945	J3024000120X	RES 0 OHM 1/10W J	1
D907	J2242510011X	D SCHOTTKY RB501V-	1	R945	J3024122120X	RES CHIP 1K2 1/10W	1

Ref. Designator	Part Number	Description	Qty	Ref. Designator	Part Number	Description	Qty
R946	J3024221120X	R-CHIP 220 2012J	1	C817	J3470147031X	CE SG 47U 16V M	1
R947	J3024681120X	RES CHIP 680 1/10W	1	C818	J3470147031X	CE SG 47U 16V M	1
R948	J3024103120X	RES CHIP 10K 1/10W	1	C819L	J3470947030X	CE 47U 16V	1
R949	J3024822120X	R-CHIP 8K2 1/10W J	1	C819R	J3470947030X	CE 47U 16V	1
R951 R952	J3024181120X J3024181120X	RES CHIP 180 1/10W RES CHIP 180 1/10W	1	C821L C821R	J3470133111X J3470133111X	CE 330U 6V3 M 6.3* CE 330U 6V3 M 6.3*	1 1
R953	J3024181120X	RES CHIP 180 1/10W	1	C824	J3470147031X	CE SG 47U 16V M	1
R954	J3024181120X	RES CHIP 180 1/10W	1	C825	J3470147031X	CE SG 47U 16V M	1
R955	J3024181120X	RES CHIP 180 1/10W	1	C827	J3470147031X	CE SG 47U 16V M	1
R956	J3024181120X	RES CHIP 180 1/10W	1	C832	J3470147031X	CE SG 47U 16V M	1
R957	J3024181120X	RES CHIP 180 1/10W	1	C834	J3470147131X	CE 470U 16V 8*11.5	1
R958 R959	J3024181120X J3024181120X	RES CHIP 180 1/10W RES CHIP 180 1/10W	1	C835 C855	J3470147131X J3470122131X	CE 470U 16V 8*11.5 CE SG 220U 16V M	1 1
R960	J3024181120X	RES CHIP 180 1/10W	1	C856	J3470122131X	CE SG 220U 16V M	1
R961	J3024101120X	RES CHIP 100 1/10W	1	C802A	J3515821170X	CC/CHIP 820P 50V J	1
R961	J3024181120X	RES CHIP 180 1/10W	1	C802C	J3515821170X	CC/CHIP 820P 50V J	1
R962	J3024181120X	RES CHIP 180 1/10W	1	C802N	J3515821170X	CC/CHIP 820P 50V J	1
R963	J3024181120X	RES CHIP 180 1/10W	1	C802P	J3515821170X	CC/CHIP 820P 50V J	1
R964	J3024103120X	RES CHIP 10K 1/10W	1	C803A	J3515821170X	CC/CHIP 820P 50V J CC/CHIP 820P 50V J	1
R964 R965	J3024181120X J3024181120X	RES CHIP 180 1/10W RES CHIP 180 1/10W	1	C803C C803N	J3515821170X J3515821170X	CC/CHIP 820P 50V J	1 1
R965	J3024171120X J3024473120X	RES CHIP 47K 1/10W	1	C803P	J3515821170X	CC/CHIP 820P 50V J	1
R966	J3024181120X	RES CHIP 180 1/10W	1	C804L	J3515821170X	CC/CHIP 820P 50V J	1
R967	J3024181120X	RES CHIP 180 1/10W	1	C804R	J3515821170X	CC/CHIP 820P 50V J	1
R968	J3024181120X	RES CHIP 180 1/10W	1	C805L	J3515821170X	CC/CHIP 820P 50V J	1
R968	J3024220120X	RES CHIP 22 1/10W	1	C805R	J3515821170X	CC/CHIP 820P 50V J	1
R970 R972	J3024102120X	RES CHIP 1K 1/10W	1 1	C807 C808	J3525104540X	CC/CHIP 0.1U 25V Z	1 1
R972 R973	J3024102120X J3024102120X	RES CHIP 1K 1/10W RES CHIP 1K 1/10W	1	C809	J3525104540X J3525104540X	CC/CHIP 0.1U 25V Z CC/CHIP 0.1U 25V Z	1
R974	J3024332120X	RES CHIP 3K3 1/10W	1	C811	J3525104540X	CC/CHIP 0.1U 25V Z	1
R975	J3024332120X	RES CHIP 3K3 1/10W	1	C813	J3525104540X	CC/CHIP 0.1U 25V Z	1
R976	J3024332120X	RES CHIP 3K3 1/10W	1	C814	J3525104540X	CC/CHIP 0.1U 25V Z	1
R983	J2244010104X	DIODE CHIP 1SS355	1	C820L	J3515471170X	C-CHIP 2012SL 470P	1
R984	J3024271120X	R-CHIP 270 1/10W J	1	C820R	J3515471170X	C-CHIP 2012SL 470P	1
R985 R986	J3024103120X J3024391120X	RES CHIP 10K 1/10W R-CHIP 390 2012J	1 1	C822 C823	J3525104540X J3525104540X	CC/CHIP 0.1U 25V Z CC/CHIP 0.1U 25V Z	1 1
R987	J3024473120X	RES CHIP 47K 1/10W	1	C826	J3525104540X	CC/CHIP 0.1U 25V Z	1
			-	C828	J3525104540X	CC/CHIP 0.1U 25V Z	1
OUTPUT PC	B (120V)			C833	J3525104540X	CC/CHIP 0.1U 25V Z	1
				C836	J3525104540X	CC/CHIP 0.1U 25V Z	1
CN801	J4350009913X	CNT 3P 900 2.0#26	1	C837 C838	J3525104540X	CC/CHIP 0.1U 25V Z	1 1
CN802 CP203	J4350009903X J4422002127X	CNT 10P 200 2.0 #2 FPC ST 1.0 21P	1 1	C839	J3525104540X J3525104540X	CC/CHIP 0.1U 25V Z CC/CHIP 0.1U 25V Z	1
CP205	J4422002127X	FPC ST 1.0 15P	1	C840	J3525104540X	CC/CHIP 0.1U 25V Z	1
CP801	J4420030340X	CNT PLUG 2.0 ST 3P	1	C841	J3525104540X	CC/CHIP 0.1U 25V Z	1
F801L	J3927001001X	EMI FILTER TU20MT	1	C842	J3525104540X	CC/CHIP 0.1U 25V Z	1
F801R	J3927001001X	EMI FILTER TU20MT	1	C843	J3525104540X	CC/CHIP 0.1U 25V Z	1
IC806	J2123829001X	FIBER OPT GP1F32T	1	C844	J3525104540X	CC/CHIP 0.1U 25V Z	1
JK803 JK804	J44303000200 J44312000100	JACK RCA 3P RBG JACK RCA+S GNDCAP	1 1	C845 C846	J3525104540X J3525104540X	CC/CHIP 0.1U 25V Z CC/CHIP 0.1U 25V Z	1 1
JK806	J44302000600	JACK RCA 2P, JE020	1	C848L	J3515101270X	CC/CHIP 100P 50V	1
JK807	J44301000100	JACK RCA 1P BK GND	1	C848R	J3515101270X	CC/CHIP 100P 50V	1
Q809	J2021200002X	TR PNP DTA114YS	1	C850	J3525104540X	CC/CHIP 0.1U 25V Z	1
Q810L	J2021060001X	TR NPN KTD1302 B	1	C851	J3525104540X	CC/CHIP 0.1U 25V Z	1
Q810R	J2021060001X	TR NPN KTD1302 B	1	C853	J3525104540X	CC/CHIP 0.1U 25V Z	1
R883 R884	J3003222220X J3003222220X	RES CF 2K2 1/8W J RES CF 2K2 1/8W J	1	C857 C858	J3515101270X J3515101270X	CC/CHIP 100P 50V J CC/CHIP 100P 50V J	1 1
TS801	J2831000014X	PULSE TRANS DAP-99	1 1	C859	J3515101270X J3515101270X	CC/CHIP 100P 50V J	1
TS801	J2831020105X	PULSE TRANS EP-7 2	1	C860	J3515101270X	CC/CHIP 100P 50V J	1
C801A	J3470947030X	CE 47U 16V	1	C861	J3515101270X	CC/CHIP 100P 50V J	1
C801C	J3470947030X	CE 47U 16V	1	C862	J3515101270X	CC/CHIP 100P 50V J	1
C801N	J3470947030X	CE 47U 16V	1	C863	J3515150270X	CC/CHIP 15P 50V	1
C801P	J3470947030X	CE 47U 16V	1	C864	J3515150270X	CC/CHIP 15P 50V	1
C806L C806R	J3470947030X J3470947030X	CE 47U 16V CE 47U 16V	1 1	D801 D802	J2244010104X J2242451514X	DIODE CHIP 1SS355 D-CHIP ZNR5V1B0.2W	1 1
C810	J3470947030X J3470147031X	CE 470 10V CE SG 47U 16V M	1	D803	J2242451514X J2242451514X	D-CHIP ZNR5V1B0.2W	1
C812	J3470147031X	CE SG 47U 16V M	1	D804	J2242468514X	D-ZENER 0.2W 6.8V	1
C815	J3470147031X	CE SG 47U 16V M	1	D805	J2242468514X	D-ZENER 0.2W 6.8V	1
C816	J3470147031X	CE SG 47U 16V M	1	D807	J2242451514X	D-CHIP ZNR5V1B0.2W	1

Ref. Designator	Part Number	Description	Qty	Ref. Designator	Part Number	Description	Qty
D808	J2242451514X	D-CHIP ZNR5V1B0.2W	1	Q805	J2041220102X	TR NPN DTC114YKA	1
D809	J2242468514X	D-ZENER 0.2W 6.8V	1	Q806	J2041220102X	TR NPN DTC114YKA	1
D810	J2242468514X	D-ZENER 0.2W 6.8V	1	Q807	J2041220102X	TR NPN DTC114YKA	1
D811	J2242468514X	D-ZENER 0.2W 6.8V	1	Q808L	J2041220302X	TR DTC323TK SMT3	1
D812	J2242468514X	D-ZENER 0.2W 6.8V	1	Q808R	J2041220302X	TR DTC323TK SMT3	1
D813	J2242468514X	D-ZENER 0.2W 6.8V	1	Q809	J2041200102X	TR PNP DTA114YKA	1
D814	J2242468514X	D-ZENER 0.2W 6.8V	1	Q810L	J2041220302X	TR DTC323TK SMT3	1
D819 D821	J2244010104X J2242422514X	DIODE CHIP 1SS355 D-ZEN CHIP UDZ2.2B	1 1	Q810R R801A	J2041220302X J3024473120X	TR DTC323TK SMT3 RES CHIP 47K 1/10W	1
IC801	J2110004003X	IC OPAMP BA4560F	1	R801C	J3024473120X	RES CHIP 47K 1/10W	1
IC801	J2110004003X	IC OP AMP NJM5532M	1	R801N	J3024473120X	RES CHIP 47K 1/10W	i
IC802	J2110004003X	IC OPAMP BA4560F	1	R801P	J3024473120X	RES CHIP 47K 1/10W	1
IC802	J2110012003X	IC OP AMP NJM5532M	1	R802A	J3024342175X	RES 3K4 1/10 1% F	1
IC803	J2110004003X	IC OPAMP BA4560F	1	R802C	J3024342175X	RES 3K4 1/10 1% F	1
IC803	J2110012003X	IC OP AMP NJM5532M	1	R802N	J3024342175X	RES 3K4 1/10 1% F	1
IC804	J2110012005X	IC AMP NJM4556AM D	1	R802P	J3024342175X	RES 3K4 1/10 1% F	1
IC805	J2110007001X	IC TSH95D VIDEO	1	R803A	J3024342175X	RES 3K4 1/10 1% F	1
IC807	J2115206008X	IC TC7WU04FU	1	R803C	J3024342175X	RES 3K4 1/10 1% F	1
IC808	J2115206008X	IC TC7WU04FU	1	R803N	J3024342175X	RES 3K4 1/10 1% F	1
J801	J3024000120X	RES 0 OHM 1/10W J	1	R803P R804A	J3024342175X	RES 3K4 1/10 1% F	1
J802 J803	J3024000120X J3024000120X	RES 0 OHM 1/10W J RES 0 OHM 1/10W J	1 1	R804C	J3024392120X J3024392120X	RES CHIP 3K9 1/10W RES CHIP 3K9 1/10W1	1
J803 J804	J3024000120X J3024000120X	RES 0 OHM 1/10W J	1	R804N	J3024392120X	RES CHIP 3K9 1/10W1	1
J808	J3024000120X	RES 0 OHM 1/10W J	1	R804P	J3024392120X	RES CHIP 3K9 1/10W	1
J809	J3024000120X	RES 0 OHM 1/10W J	1	R805A	J3024222120X	RES CHIP 2K2 1/10W1	1
J813	J3024000120X	RES 0 OHM 1/10W J	1	R805C	J3024222120X	RES CHIP 2K2 1/10W1	1
J814	J3024000120X	RES 0 OHM 1/10W J	1	R805N	J3024222120X	RES CHIP 2K2 1/10W1	1
J818	J3024000120X	RES 0 OHM 1/10W J	1	R805P	J3024222120X	RES CHIP 2K2 1/10W	1
J819	J3024000120X	RES 0 OHM 1/10W J	1	R807A	J3024122120X	RES CHIP 1K2 1/10W	1
J836	J3024000120X	RES 0 OHM 1/10W J	1	R807C	J3024122120X	RES CHIP 1K2 1/10W	1
J837	J3024000120X	RES 0 OHM 1/10W J	1	R807N	J3024122120X	RES CHIP 1K2 1/10W	1
L801	J2631300011X	BEAD 120XOHM	1	R807P	J3024122120X	RES CHIP 1K2 1/10W	1
L802 L803	J2631300011X J2631300011X	BEAD 120XOHM BEAD 120XOHM	1 1	R808L R808R	J3024911120X J3024911120X	RES CHIP 910 1/10W RES CHIP 910 1/10W	1
L804	J2631300011X	BEAD 120XOHM	1	R809L	J3024911120X J3024911120X	RES CHIP 910 1/10W	1
L805	J2631300011X	BEAD 120XOHM	1	R809R	J3024911120X	RES CHIP 910 1/10W	1
L806	J2631300011X	BEAD 120XOHM	1	R810L	J3024473120X	RES CHIP 47K 1/10W	1
L807	J2611022011X	COIL CHIP ELJFC220	1	R810R	J3024473120X	RES CHIP 47K 1/10W	1
L808	J2611022011X	COIL CHIP ELJFC220	1	R811L	J3024102120X	RES CHIP 1K 1/10W	1
L809	J2631300011X	BEAD 120XOHM	1	R811R	J3024102120X	RES CHIP 1K 1/10W	1
L810	J3024000120X	RES 0 OHM 1/10W J	1	R812L	J3024102120X	RES CHIP 1K 1/10W	1
L811	J3024000120X	RES 0 OHM 1/10W J	1	R812R	J3024102120X	RES CHIP 1K 1/10W	1
L812	J2631300011X	BEAD 120XOHM	1	R813	J3024100120X	R-CHIP 10 2012J	1
L813	J2631300011X	BEAD 120XOHM	1	R814	J3024100120X	R-CHIP 10 2012J	1
L814 L815	J2611022011X J2611022011X	COIL CHIP ELJFC220 COIL CHIP ELJFC220	1 1	R815 R816L	J3024221120X J3024102120X	R-CHIP 220 2012J RES CHIP 1K 1/10W	1
L816	J2611022011X	COIL CHIP ELJFC220	1	R816R	J3024102120X	RES CHIP 1K 1/10W	1
L817	J2611022011X	COIL CHIP ELJFC220	1	R817L	J3024473120X	RES CHIP 47K 1/10W	1
L818	J3024000120X	RES 0 OHM 1/10W J	1	R817R	J3024473120X	RES CHIP 47K 1/10W	1
L819	J3024000120X	RES 0 OHM 1/10W J	1	R818L	J3024272120X	RES CHIP 2K7 1/10W	1
L820	J2611022011X	COIL CHIP ELJFC220	1	R818R	J3024272120X	RES CHIP 2K7 1/10W	1
L821	J2611022011X	COIL CHIP ELJFC220	1	R819L	J3024332120X	RES CHIP 3K3 1/10W	1
L822	J2611022011X	COIL CHIP ELJFC220	1	R819R	J3024332120X	RES CHIP 3K3 1/10W	1
L823	J2611022011X	COIL CHIP ELJFC220	1	R820L	J3024750120X	RES CHIP 75 1/10W	1
L824	J2611022011X	COIL CHIP ELJFC220	1	R820R	J3024750120X	RES CHIP 75 1/10W	1
L825	J2611022011X	COIL CHIP ELJFC220	1	R821	J3024221120X	R-CHIP 220 2012J	1
L826 L827	J2611022011X J3024000120X	COIL CHIP ELJFC220 RES 0 OHM 1/10W J	1 1	R822 R823	J3024221120X J3024221120X	R-CHIP 220 2012J R-CHIP 220 2012J	1
L828	J2611022011X	COIL CHIP ELJFC220	1	R824	J3024221120X J3024221120X	R-CHIP 220 2012J	1
L829	J3024000120X	RES 0 OHM 1/10W J	1	R825	J3024221120X	R-CHIP 220 2012J	1
L830	J3024000120X	RES 0 OHM 1/10W J	1	R826	J3024221120X	R-CHIP 220 2012J	1
L831	J3024000120X	RES 0 OHM 1/10W J	1	R830	J3024390120X	RES 39R 1/10	1
L832	J3024000120X	RES 0 OHM 1/10W J	1	R831	J3024390120X	RES 39R 1/10	1
L833	J3024000120X	RES 0 OHM 1/10W J	1	R832	J3024390120X	RES 39R 1/10	1
Q801L	J2041220302X	TR DTC323TK SMT3	1	R833	J3024390120X	RES 39R 1/10	1
Q801R	J2041220302X	TR DTC323TK SMT3	1	R836	J3024100120X	R-CHIP 10 2012J	1
Q802	J2041200102X	TR PNP DTA114YKA	1	R837	J3024100120X	R-CHIP 10 2012J	1
Q803	J2041200102X	TR PNP DTA114YKA	1	R838	J30245621175	RES 562R 1/10 1% F	1
Q804	J2041220102X	TR NPN DTC114YKA	1	R839	J30246651175	RES 665R 1/10 1% F	1

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Ref. Designator	Part Number	Description	Qty	Ref. Designator	Part Number	Description	Qty
R840	J30243921175	RES 392R 1/10 1% F	1	C855	J3470110071X	CE SG 10U 50V M	1
R841	J3024342175X	RES 3K4 1/10 1% F	1	C863	J3470110131X	CE SG 100U 16V M	1
R842	J30245621175	RES 562R 1/10 1% F	1	C864	J3470110131X	CE SG 100U 16V M	1
R843	J30241652175	RES CHIP 1K65 1% F	1	C866	J3470147031X	CE SG 47U 16V M	1
R844	J30248451175	RES 845R 1/10 1% F	1	C891N	J3470947030X	CE 47U 16V	1
R845	J30243921175	RES 392R 1/10 1% F	1	C891P	J3470947030X	CE 47U 16V	1
R846	J30243921175	RES 392R 1/10 1% F	1	C912	J3513561170X	CC/DISC SL 560P50V	1
R847	J30243921175	RES 392R 1/10 1% F	1	C913	J3513561170X	CC/DISC SL 560P50V	1
R848	J3024390120X	RES 39R 1/10 J	1	C914	J3523104540X	CAP C/D/T .1U 25V	1
R849	J3024390120X	RES 39R 1/10 J	1	C914L	J3470647931X	CE 4.7UF 16V M	1
R850	J3024390120X	RES 39R 1/10 J	1	C914R	J3470647931X	CE 4.7UF 16V M	1
R851	J3024390120X	RES 39R 1/10 J	1	C916L	J3470947030X	CE 47U 16V	1
R852	J3024390120X	RES 39R 1/10 J	1	C916R	J3470947030X	CE 47U 16V	1
R853	J3024390120X	RES 39R 1/10 J	1	C917L	J3470647931X	CE 4.7UF 16V M	1
R856	J3024101120X	RES CHIP 100 1/10W	1	C917R	J3470647931X	CE 4.7UF 16V M	1
R857	J3024101120X	RES CHIP 100 1/10W	1	L806	J3927001001X	EMI FILTER TU20MT	1
R858	J3024100120X	R-CHIP 10 2012J	1	L807	J3927001001X	EMI FILTER TU20MT	1
R859	J3024101120X	RES CHIP 100 1/10W	1	L808	J3927001001X	EMI FILTER TU20MT	1
R860	J3024181120X	RES CHIP 180 1/10W	1	L809	J3927001001X	EMI FILTER TU20MT	1
R861	J3024100120X	R-CHIP 10 2012J	1	Q910	J2021060001X	TR NPN KTD1302 B	1
R862	J3024750120X	RES CHIP 75 1/10W	1	Q911	J2021060001X	TR NPN KTD1302 B	1
R863	J3024471120X	RES CHIP 470 1/10W	1	Q912	J2021200002X	TR PNP DTA114YS	1
R865	J3024181120X	RES CHIP 180 1/10W	1	R926L	J3003750220X	RES CF 75 1/8 J	1
R867	J3024390120X	RES 39R 1/10 J	1	R926R	J3003750220X	RES CF 75 1/8 J	1
R868	J3024390120X	RES 39R 1/10 J	1	R950	J3003332220X	RES CF 3K3 1/8 J	1
R869	J3024104120X	RES CHIP 100K 1/10	1	R980	J3003332220X	RES CF 3K3 1/8 J	1
R870	J3024104120X	RES CHIP 100K 1/10	1	C802N	J3515821170X	CC/CHIP 820P 50V J	1
R871	J3024470120X	RES CHIP 47 1/10W	1	C802P	J3515821170X	CC/CHIP 820P 50V J	1
R872	J3024471120X	RES CHIP 470 1/10W	1	C803N	J3515821170X	CC/CHIP 820P 50V J	1
R873	J3024331120X	R-CHIP 330 2012J	1	C803P	J3515821170X	CC/CHIP 820P 50V J	1
R874	J3024331120X	R-CHIP 330 2012J	1	C804L	J3515821170X	CC/CHIP 820P 50V J	1
R875	J3024470120X	RES CHIP 47 1/10W	1	C804R	J3515821170X	CC/CHIP 820P 50V J	1
R876	J3024471120X	RES CHIP 470 1/10W	1	C805L	J3515821170X	CC/CHIP 820P 50V J	1
R878	J3024331120X	R-CHIP 330 2012J	1	C805R	J3515821170X	CC/CHIP 820P 50V J	1
R879	J3024331120X	R-CHIP 330 2012J	1	C807	J3525104540X	CC/CHIP 0.1U 25V Z	1
R880	J3024102120X	RES CHIP 1K 1/10W	1	C808	J3525104540X	CC/CHIP 0.1U 25V Z	1
R881	J3024102120X	RES CHIP 1K 1/10W	1	C809	J3525104540X	CC/CHIP 0.1U 25V Z	1
R882	J3024102120X	RES CHIP 1K 1/10W	1	C811	J3525104540X	CC/CHIP 0.1U 25V Z	1
R883	J3024222120X	RES CHIP 2K2 1/10W	1	C813	J3525104540X	CC/CHIP 0.1U 25V Z	1
R884	J3024222120X	RES CHIP 2K2 1/10W	1	C814	J3525104540X	CC/CHIP 0.1U 25V Z	1
OUTDUT DO	D (220V)			C819	J3515101270X	CC/CHIP 100P 50V J	1 1
OUTPUT PC	D (230V)			C820 C821	J3515101270X	CC/CHIP 100P 50V J	1
C004NI	12470047020V	CE 47U 16V	4	C826	J3515101270X J3525104540X	CC/CHIP 100P 50V J CC/CHIP 0.1U 25V Z	1
C801N C801P	J3470947030X J3470947030X	CE 47U 16V CE 47U 16V	1 1	C828	J3525104540X	CC/CHIP 0.10 25V Z	1
C806L	J3470947030X J3470947030X	CE 47U 16V	1	C829	J3024000120X	RES 0 OHM 1/10W J	1
C806R	J3470947030X	CE 470 16V CE 47U 16V	1	C830	J3515680270X	CC/CHIP 68P 2012	1
C810	J3470147031X	CE SG 47U 16V M	1	C833	J3525104540X	CC/CHIP 0.1U 25V Z	1
C812	J3470147031X	CE SG 47U 16V M	i 1	C836	J3525104540X	CC/CHIP 0.1U 25V Z	1
C815	J3470147031X	CE SG 47U 16V M	i 1	C837	J3525104540X	CC/CHIP 0.1U 25V Z	1
C816	J3470147031X	CE SG 47U 16V M	1	C838	J3525104540X	CC/CHIP 0.1U 25V Z	1
C817	J3470147031X	CE SG 47U 16V M	1	C839	J3525104540X	CC/CHIP 0.1U 25V Z	1
C818	J3470147031X	CE SG 47U 16V M	1	C840	J3525104540X	CC/CHIP 0.1U 25V Z	1
C822	J3470147131X	CE 470U 16V 8*11.5	1	C841	J3525104540X	CC/CHIP 0.1U 25V Z	1
C823	J3470147131X	CE 470U 16V 8*11.5	1	C843	J3525103170X	CC/CHIP .01U 50V K	1
C824	J3470110971X	CE SG 1U 50V M	1	C844	J3525103170X	CC/CHIP .01U 50V K	1
C825	J3470110971X	CE SG 1U 50V M	1	C845	J3525103170X	CC/CHIP .01U 50V K	1
C827	J3470147031X	CE SG 47U 16V M	1	C848L	J3515101170X	CC 100PF 50V 2012	1
C832	J3470147031X	CE SG 47U 16V M	1	C848R	J3515101170X	CC 100PF 50V 2012	1
C834	J3470147131X	CE 470U 16V 8*11.5	1	C853	J3525104540X	CC/CHIP 0.1U 25V Z	1
C835	J3470147131X	CE 470U 16V 8*11.5	1	C856	J3515221170X	CC/CHIP 220P 50V J	1
C842	J3470110131X	CE SG 100U 16V M	1	C859	J3525104540X	CC/CHIP 0.1U 25V Z	1
C846	J3470147031X	CE SG 47U 16V M	1	C860	J3515101270X	CC/CHIP 100P 50V J	1
C847	J3470110121X	CE SG 100U 10V M	1	C861	J3515101270X	CC/CHIP 100P 50V J	1
C849	J3470110971X	CE SG 1U 50V M	1	C865	J3525104540X	CC/CHIP 0.1U 25V Z	1
C850	J3470110971X	CE SG 1U 50V M	1	C892N	J3515821170X	CC/CHIP 820P 50V J	1
C851	J3470110071X	CESG 10U 50V M	1	C892P	J3515821170X	CC/CHIP 820P 50V J	1
C852	J3470110071X	CE SG 10U 50V M	1	C893N	J3515821170X	CC/CHIP 820P 50V J	1
C854	J3470147031X	CE SG 47U 16V M	1	C893P	J3515821170X	CC/CHIP 820P 50V J	1

Ref. Designator	Part Number	Description	Qty	Ref. Designator	Part Number	Description	Qty
C912R	J3525104540X	CC/CHIP 0.1U 25V Z	1	R801N	J3024473120X	RES CHIP 47K 1/10W	1
C913L	J3515471170X	C-CHIP 2012SL 470P	1	R801P	J3024473120X	RES CHIP 47K 1/10W	1
C913R	J3515471170X	C-CHIP 2012SL 470P	1	R802N	J3024342175X	RES 3K4 1/10 1% F	1
D801	J2242451514X	D-CHIP ZNR5V1B0.2W	1	R802P	J3024342175X	RES 3K4 1/10 1% F	1
D802	J2242451514X	D-CHIP ZNR5V1B0.2W	1	R803N	J3024342175X	RES 3K4 1/10 1% F	1
D803	J2242451514X	D-CHIP ZNR5V1B0.2W	1	R803P	J3024342175X	RES 3K4 1/10 1% F	1
D804	J2242468514X	D-ZENER 0.2W 6.8V	1	R804N	J3024392120X	RES CHIP 3K9 1/10W	1
D805 D806	J2242468514X J2242451514X	D-ZENER 0.2W 6.8V D-CHIP ZNR5V1B0.2W	1 1	R804P R805N	J3024392120X J3024272120X	RES CHIP 3K9 1/10W RES CHIP 2K7 1/10W	1
D807	J2242451514X J2242451514X	D-CHIP ZNR5V1B0.2W	1	R805P	J3024272120X	RES CHIP 2K7 1/10W	1
D808	J2242451514X	D-CHIP ZNR5V1B0.2W	1	R806	J3024223120X	RES CHIP 22K 1/10W	1
D809	J2242422514X	D-ZEN CHIP UDZ2.2B	1	R807N	J3024122120X	RES CHIP 1K2 1/10W	1
D810	J2242451514X	D-CHIP ZNR5V1B0.2W	1	R807P	J3024122120X	RES CHIP 1K2 1/10W	1
D811	J2242451514X	D-CHIP ZNR5V1B0.2W	1	R808L	J3024911120X	RES CHIP 910 1/10W	1
D812	J2242451514X	D-CHIP ZNR5V1B0.2W	1	R808R	J3024911120X	RES CHIP 910 1/10W	1
D813	J2242451514X	D-CHIP ZNR5V1B0.2W	1	R809L	J3024911120X	RES CHIP 910 1/10W	1
D814	J2244010104X	DIODE CHIP 1SS355	1	R809R	J3024911120X	RES CHIP 910 1/10W	1
D815 D816	J2244010104X J2242451514X	DIODE CHIP 1SS355 D-CHIP ZNR5V1B0.2W	1 1	R810L R810R	J3024473120X J3024473120X	RES CHIP 47K 1/10W	1
D817	J2242451514X J2242451514X	D-CHIP ZNR5V1B0.2W	1	R811L	J3024473120X J3024000120X	RES CHIP 47K 1/10W RES 0 OHM 1/10W J	1
D818	J2244010104X	DIODE CHIP 1SS355	1	R811R	J3024000120X	RES 0 OHM 1/10W J	1
D819	J2244010104X	DIODE CHIP 1SS355	1	R812L	J3024102120X	RES CHIP 1K 1/10W	1
IC801	J2110012003X	IC OP AMP NJM5532M	1	R812R	J3024102120X	RES CHIP 1K 1/10W	1
IC802	J2110012003X	IC OP AMP NJM5532M	1	R813	J3024224120X	RES CHIP 220K 1/10	1
IC803	J2110012003X	IC OP AMP NJM5532M	1	R814	J3024224120X	RES CHIP 220K 1/10	1
IC807	J2115206008X	IC TC7WU04FU	1	R815	J3024331120X	R-CHIP 330 2012J	1
IC808	J2115206008X	IC TC7WU04FU	1	R816	J3024331120X	R-CHIP 330 2012J	1
IC902	J2110012005X	IC AMP NJM4556AM D	1	R817	J3024390120X	RES 39R 1/10 J	1
J802	J3024000120X	RES 0 OHM 1/10W J	1	R818	J3024390120X	RES 39R 1/10 J	1
J803 J808	J3024000120X J3024000120X	RES 0 OHM 1/10W J RES 0 OHM 1/10W J	1 1	R819 R820	J3024390120X J3024390120X	RES 39R 1/10 J RES 39R 1/10 J	1
J809	J3024000120X J3024000120X	RES 0 OHM 1/10W J	1	R821	J3024390120X	RES 39R 1/10 J	1
J810	J3024000120X	RES 0 OHM 1/10W J	1	R822	J3024390120X	RES 39R 1/10 J	1
J811	J3024000120X	RES 0 OHM 1/10W J	1	R824	J3024339120X	RES CHIP 3R3 1/10	1
J816	J3024000120X	RES 0 OHM 1/10W J	1	R825	J3024331120X	R-CHIP 330 2012J	1
J901	J3024000120X	RES 0 OHM 1/10W J	1	R826	J3024101120X	RES CHIP 100 1/10W	1
J902	J3024000120X	RES 0 OHM 1/10W J	1	R827	J3024224120X	RES CHIP 220K 1/10	1
L801	J3024000120X	RES 0 OHM 1/10W J	1	R828	J3024224120X	RES CHIP 220K 1/10	1
L802	J3024000120X	RES 0 OHM 1/10W J	1 1	R829	J3024103120X	RES CHIP 10K 1/10W	1
L803 L804	J3024000120X J3024000120X	RES 0 OHM 1/10W J RES 0 OHM 1/10W J	1	R830 R831	J3024470120X J3024390120X	RES CHIP 47 1/10W RES 39R 1/10 J	1
L80 4 L805	J3024000120X J3024000120X	RES 0 OHM 1/10W J	1	R832	J3024390120X	RES 39R 1/10 J	1
L811	J2631300011X	BEAD 120XOHM	i	R833	J3024390120X	RES 39R 1/10 J	1
L814	J2611022011X	COIL CHIP ELJFC220	1	R834	J3024103120X	RES CHIP 10K 1/10W	1
L815	J2611022011X	COIL CHIP ELJFC220	1	R835	J3024822120X	R-CHIP 8K2 1/10W J	1
L816	J2611022011X	COIL CHIP ELJFC220	1	R836	J3024101120X	RES CHIP 100 1/10W	1
L817	J2611022011X	COIL CHIP ELJFC220	1	R837	J3024101120X	RES CHIP 100 1/10W	1
L818	J3024000120X	RES 0 OHM 1/10W J	1	R838	J3024123120X	RES CHIP 12K 1/10W	1
L819	J2611022011X	COIL CHIP ELJFC220	1	R839	J3024750120X	RES CHIP 75 1/10W	1
L820 L902	J3024000120X J2611022011X	RES 0 OHM 1/10W J COIL CHIP ELJFC220	1 1	R840 R841	J3024102120X J3024102120X	RES CHIP 1K 1/10W RES CHIP 1K 1/10W	1
L902 L903	J2611022011X	COIL CHIP ELJFC220	1	R842	J3024102120X	RES CHIP 1K 1/10W	1
Q801L	J2041220302X	TR DTC323TK SMT3	1	R843	J3024473120X	RES CHIP 47K 1/10W	1
Q801R	J2041220302X	TR DTC323TK SMT3	1	R844	J3024473120X	RES CHIP 47K 1/10W	1
Q802	J2041200101X	TR PNP KRA107S	1	R845	J3024123120X	RES CHIP 12K 1/10W	1
Q803	J2041200101X	TR PNP KRA107S	1	R846	J3024123120X	RES CHIP 12K 1/10W	1
Q804	J2041220201X	TR CHIP NPN KRC107	1	R847	J3024101120X	RES CHIP 100 1/10W	1
Q805	J2041200201X	TR NPN KRC107S	1	R848	J3024100120X	R-CHIP 10 2012J	1
Q806	J2041020201X	TR KTC3875S SOT23	1	R849 R850	J3024100120X	R-CHIP 10 2012J	1
Q807 Q808	J2041220201X J2041000301X	TR CHIP NPN KRC107 TR KTA1504S SOT23	1 1	R851	J3024222120X J3024221120X	RES CHIP 2K2 1/10W R-CHIP 220 2012J	1 1
Q809	J2041000301X J2041220201X	TR CHIP NPN KRC107	1	R852	J3024221120X J3024102120X	RES CHIP 1K 1/10W	1
Q810	J2041220302X	TR DTC323TK SMT3	1	R853	J3024181120X	RES CHIP 180 1/10W	1
Q811	J2041220201X	TR CHIP NPN KRC107	1	R854	J3024221120X	R-CHIP 220 2012J	1
Q812	J2041220201X	TR CHIP NPN KRC107	1	R856	J3024101120X	RES CHIP 100 1/10W	1
Q813	J2041220302X	TR DTC323TK SMT3	1	R857	J3024101120X	RES CHIP 100 1/10W	1
Q814	J2041220201X	TR CHIP NPN KRC107	1	R858	J3024100120X	R-CHIP 10 2012J	1
Q815	J2041020201X	TR KTC3875S SOT23	1	R859	J3024101120X	RES CHIP 100 1/10W	1
R001	J3024680120X	R-CHIP 68 1/10W J	1	R860	J3024271120X	R-CHIP 270 1/10W J	1

Ref. Designator	Part Number	Description	Qty	Ref. Designator	Part Number	Description	Qty
R861	J3024100120X	R-CHIP 10 2012J	1				
R862	J3024000120X	RES 0 OHM 1/10W J	1				
R863	J3024751120X	R-CHIP 750 2012J	1				
R864	J3024331120X	R-CHIP 330 2012J	1				
R867	J3024470120X	RES CHIP 47 1/10W	1				
R868	J3024330120X	RES CHIP 33 1/10W	1				
R876N	J3024473120X	RES CHIP 47K 1/10W	1				
R876P	J3024473120X	RES CHIP 47K 1/10W	1				
R877N	J3024392120X	RES CHIP 3K9 1/10W	1				
R877P	J3024392120X	RES CHIP 3K9 1/10W	1				
R878N	J3024342175X	RES 3K4 1/10 1% F	1				
R878P	J3024342175X	RES 3K4 1/10 1% F	1				
R879N	J3024342175X	RES 3K4 1/10 1% F	1				
R879P	J3024342175X	RES 3K4 1/10 1% F	1				
R880N	J3024272120X	RES CHIP 2K7 1/10W	1				
R880P	J3024272120X	RES CHIP 2K7 1/10W	1				
R881N	J3024122120X	RES CHIP 1K2 1/10W	1				
R881P	J3024122120X	RES CHIP 1K2 1/10W	1				
R882	J3024102120X	RES CHIP 1K 1/10W	1				
R919L	J3024102120X	RES CHIP 1K 1/10W	1				
R919R	J3024102120X	RES CHIP 1K 1/10W	1				
R920L	J3024473120X	RES CHIP 47K 1/10W	1				
R920R	J3024473120X	RES CHIP 47K 1/10W	1				
R924L	J3024272120X	RES CHIP 2K7 1/10W	1				
R924R	J3024272120X	RES CHIP 2K7 1/10W	1				
R925L	J3024332120X	RES CHIP 3K3 1/10W	1				
R925R	J3024332120X	RES CHIP 3K3 1/10W	1				
R927	J3024100120X	R-CHIP 10 2012J	1				
R928	J3024100120X	R-CHIP 10 2012J	1				
R981	J3024822120X	R-CHIP 8K2 1/10W J	1				
R982	J3024203120X	RES CHIP 20K 1/10W	1				



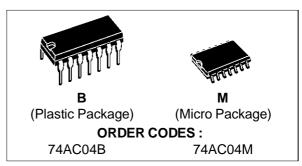
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HEX INVERTER

- HIGH SPEED: tPD = 4 ns (TYP.) at VCC = 5V
- LOW POWER DISSIPATION: $I_{CC} = 4 \mu A \text{ (MAX.)}$ at $T_A = 25 \, ^{\circ}\text{C}$
- HIGH NOISE IMMUNITY: V_{NIH} = V_{NIL} = 28% V_{CC} (MIN.)
- 50Ω TRANSMISSION LINE DRIVING CAPABILITY
- SYMMETRICAL OUTPUT IMPEDANCE: |IOH| = IOL = 24 mA (MIN)
- BALANCED PROPAGATION DELAYS:
 tplh ≅ tphl
- OPERATING VOLTAGE RANGE: VCC (OPR) = 2V to 6V
- PIN AND FUNCTION COMPATIBLE WITH 74 SERIES 04
- IMPROVED LATCH-UP IMMUNITY

DESCRIPTION

The AC04 is an advanced high-speed CMOS HEX INVERTER fabricated with sub-micron silicon gate and double-layer metal wiring C²MOS

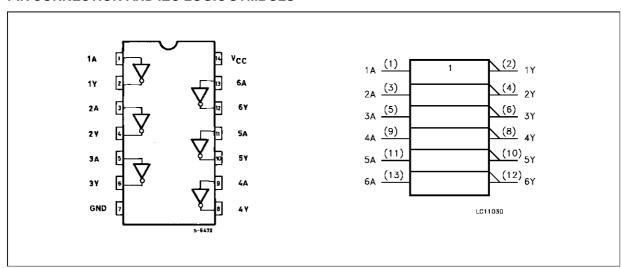


technology. It is ideal for low power applications mantaining high speed operation similar to equivalent Bipolar Schottky TTL.

The internal circuit is composed of 3 stages including buffer output, which enables high noise immunity and stable output.

All inputs and outputs are equipped with protection circuits against static discharge, giving them 2KV ESD immunity and transient excess voltage.

PIN CONNECTION AND IEC LOGIC SYMBOLS



April 1997 1/7

NJM4560



DUAL OPERATIONAL AMPLIFIER

GENERAL DESCRIPTION

The NJM4560 integrated circuit is a high-gain, wide-bandwidth, dual operational amplifier capable of driving 20V peak-to-peak into $400\,\Omega$ loads. The NJM4560 combines many of the features of the NJM4558 as well as providing the capability of wider bandwidth, and higher slew rate make the NJM4560 ideal for active filters, data and telecommunications, and many instrumentation applications. The availability of the NJM4560 in the surface mounted micro-package allows the NJM4560 to be used in critical applications requiring very high packing densities.

FEATURES

Operating Voltage $(\pm 4V \sim \pm 18V)$ Wide Gain Bandwidth Product (10MHz typ.) Slew Rate $(4V/\mu s typ.)$ Package Outline DIP8, DMP8, SIP8

Bipolar Technology

■ PACKAGE OUTLINE

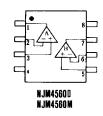


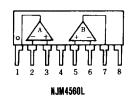




NJM4560L

PIN CONFIGURATION



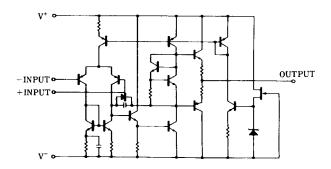


PIN FUNCTION

1. A OUTPUT 2. A-INPUT 3 . A+INPUT 4 . V 5. B+INPUT

6. B-INPUT 7. B OUTPUT

■ EQUIVALENT CIRCUIT (1/2 Shown)





NJM4556A

DUAL HIGH CURRENT OPERATIONAL AMPLIFIER

■ GENERAL DESCRIPTION

The NJM4556A integrated circuit is a high-gain, high output current dual operational amplifier capable of driving ± 70 mA into 150 Ω loads (± 10.5 V output voltage), and operating low supply voltage ($V^+/V^-=\pm 2V^-$).

The NJM4556A combines many of the fetures of the popular NJM4558 as well as having the capability of driving 150 Ω loads. In addition, the wide band-width, low noise, high slew rate and low distortion of the NJM4556A make it ideal for many audio, telecommunications and instrumentation applications.

■ FEATURES

Operating Voltage

 $(\pm 2V \sim \pm 18V)$

• High Output Current

(Io=70mA)

Siew Rate

(3V/ μs typ.)

Gain Band Width ProductPackage Outline

(8MHz typ.) DIP8, DMP8, SIP8, SSOP8

Bipolar Technology

■ PACKAGE OUTLINE





NJM4556AD

NJM4558AM



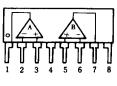


NJM4558AL

■ PIN CONFIGURATION



NJM4556AD NJM4556AM NJM4556AV

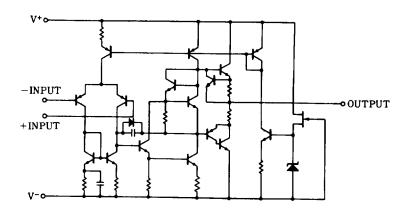


NJM4556AL

PIN FUNCTION

- 1. A OUTPUT
- 2. A-INPUT
- 3. A+INPUT
- 4. V-5. B+INPUT
- 6. B-INPUT
- 7. B OUTPUT

■ EQUIVALENT CIRCUIT (1/2 Shown)





STi5505 (Rev. BB)

ONFIDENTIA **DVD BACKEND DECODER** WITH INTEGRATED HOST PROCESSOR

PRODUCT PREVIEW

- INTEGRATED 32-BIT RISC HOST CPU
 - 2KBYTES INSTRUCTION CACHE, 2KBYTES DATA CACHE/SRAM
 - 50K DHRYSTONES/SEC (2.1) 50MHz
- VIDEO DECODER
 - FULLY SUPPORTS MPEG-2 MP@ML
 - MEMORY REDUCTION PAL IN 12MBITS
- SUBPICTURE DECODER
- HIGH PERFORMANCE ON-SCREEN DISPLAY
- AUDIO DECODER
 - 5.1 CHANNEL DOLBY® DIGITAL / MPEG-2 MULTI CHANNEL DECODING
 - DOWNMIX TO STEREO OR TO DOLBY PRO-LOGIC COMPATIBLE OUTPUTS FOR MPEG-2 AND DOLBY DIGITAL
 - IEC6958 IEC61937 COMPATIBLE OUTPUT
 - LPCM (DVD) MODE SUPPORTED

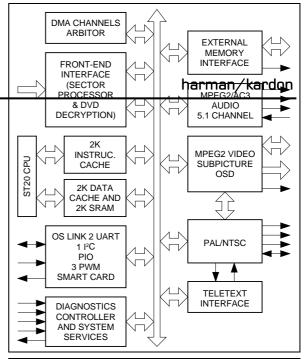
DVD CHANNELS OUTPUT

- PAL/NTSC ENCODER
 - MACROVISION® 7.01/6.1 COMPATIBLE
 - TELETEXT, AND CLOSED CAPTION
- HIGH PERFORMANCE SDRAM INTERFACE
- PROGRAMMABLE MEMORY INTERFACE FOR DRAM, ROM, PERIPHERALS ETC.
- FRONT-END CHANNEL IC INTERFACE
 - DVD. VCD AND CD-DA COMPATIBLE
 - DSS DVB BISTREAMS
 - SERIAL AND PARALLEL INTERFACES
 - HARDWARE SECTOR FILTERING
 - INTEGRATED CSS DECRYPTION AND TRACK BUFFER
- INTEGRATED PERIPHERALS
 - 2 UARTS, 1 I²C CONTROLLER, 3 PWM OUT-PUTS, 3 TIMERS, 3 CAPTURE TIMERS, SMART CARD
 - 34 BITS OF PROGRAMMABLE I/O
 - OS LINK
- PROFESSIONAL TOOLSET SUPPORT
 - ANSI C COMPILER AND LIBRARIES
 - OPERATING SYSTEMS SUPPORT
 - ADVANCED DEBUGGING TOOLS
- 208 PIN PQFP PACKAGE

DESCRIPTION

The STi5505 provides a very highly integrated backend solution for DVD and combo DVD-DVB (Set Top Box) applications. The STi5505 incorporates a host CPU which handles both general application (DVD navigation, CD-DA, VCD, DVB) and drivers of the different embedded periphals (audio/video, subpicture decoders, OSD, PAL/NTSC encoder...). The STi5505 offers one of the best cost-effective (memory savings, internal peripherals availability) solution to DVD-DVB applications with rapid time to market (Reference design, DVD-DVB Software Toolkit).

Figure 1: General Block Diagram





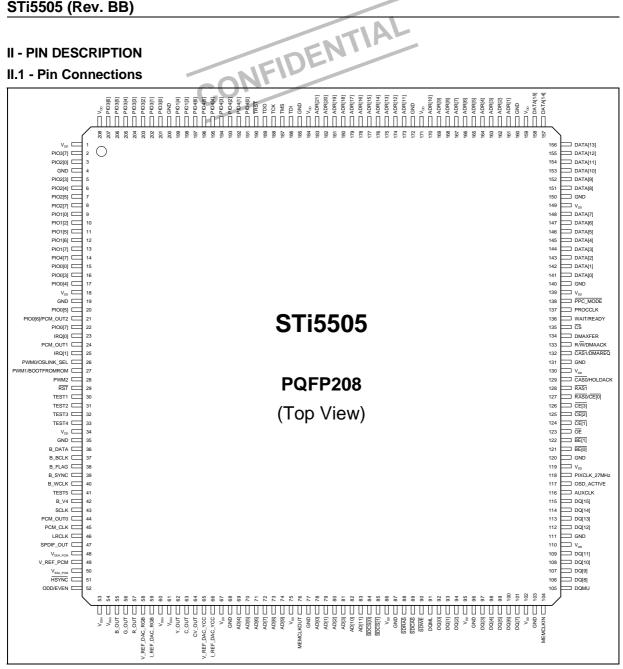
November 1998 1/195

This is advance information on a new product now in development or undergoing evaluation. Details are subject to change without notice.

STi5505 (Rev. BB)

II - PIN DESCRIPTION

II.1 - Pin Connections



14/195

II - PIN DESCRIPTION (continued)

II.2 - Pin List

			STi5505 (Rev. BB)
			ЭПЭЭОЭ (Rev. ВВ)
II DIN DECEDIRATION /	a antinua d\		NTIA
II - PIN DESCRIPTION (II.2 - Pin List	continued)	DE	Function
	Name	Turns	Function
Pin	Name	Туре	Function
SUPPLIES		1	Γ
1, 18, 34, 67, 75, 86, 95, 102, 110, 119, 130, 139, 149, 159, 171, 184, 208	V_{DD}		Power Supply
4, 19, 35, 68, 77, 87, 96, 103, 111, 120, 131, 140, 150, 160, 172, 185, 200	GND		Ground
53, 60	V_{DDA}		Analog Power Supply for DENC D/A Converters
54, 61	V_{SSA}		Analog Ground for DENC D/A Converters
48	V _{DDA_PCM}		Analog Power Supply for PLL PCM
49	V_REF_PCM		Analog Reference for PLL PCM
50	V _{SSA_PCM}		Analog Ground for PLL PCM
FRONT-END INTERFACE			
36	B_DATA	I	I ² S Data (DVD) or PARA_DATA[2] (DVD//) or Link Data (DVB/DSS)
40	B_WCLK	I/O	I ² S Word Clock or NRSS_CLK (DVB/DSS)
37	B_BCLK	I	I ² S Bit Clock (DVD) or PARA_DATA[3] (DVD//) or Link Bit Clock (DVB/DSS)
38	B_FLAG	I	Error Flag (DVD) or PARA_DATA [4] (DVD//) or Link Sync (DVB/DSS)
39	B_SYNC	I	Sector / Abs Time Sync (DVD) or PARA_DATA[5] (DVD//) or Link Not Valid (DVB/DSS)
42	B_V4	I	Versatile Input Pin (Subcode Input) or NRSS_IN (DVB/DSS)
VIDEO OUTPUT INTERFAC	CE	•	
57	R_OUT	0	Red Output
56	G_OUT	0	Green Output
55	B_OUT	0	Blue Output
63	C_OUT	0	Chroma Output
64	CV_OUT	0	Composite Video Output
62	Y_OUT	0	Luma Output
59	I_REF_DAC_RGB	- 1	DAC Current Reference
66	I_REF_DAC_YCC	- 1	DAC Current Reference
58	V_REF_DAC_RGB	I	DAC Voltage Reference
65	V_REF_DAC_YCC	1	DAC Voltage Reference
117	OSD_ACTIVE	I/O	OSD Active
118	PIXCLK_27MHz	I	System Clock Input
51	HSYNC	I/O	Horizontal Sync
52	ODD/EVEN	I/O	Vertical Sync
AC-3/MPEG1-2 AUDIO OUT	TPUT INTERFACE		
43	SCLK	0	Serial Bit Clock
44	PCM_OUT0	0	Audio Serial Output Data 0
24	PCM_OUT1	0	Audio Serial Output Data 1
21	PCM_OUT2	0	Audio Serial Output Data 2
45	PCM_CLK	I/O	PCM Clock In or Out
46	LRCLK	0	Left/Right Clock
47	SPDIF_OUT	I/O	S/PDIF Output (Tristated after reset)



15/195

STi5505 (Rev. BB)

II - PIN DESCRIPTION (continued)

II.2 - Pin List (continued)

STi5505 (Rev. BB)			
			Function
II - PIN DESCRIPTION	(continued)	251	NILL
II.2 - Pin List (continued	1)	DE	
Pin	Name	Type	Function
EXTERNAL INTERRUPTS	Name	Type	Function
	1000041		E terrestleterments
23, 25	IRQ[0:1]	<u> </u>	External Interrupts
	1		evice Configuration Chapter)
15	PIO0 [0]	I/O	General Purpose I/O or PARA_SYNC (DVD//Front End) or Sc1Data (Smart Card 1 Data I/O)
16	PIO0 [3]	I/O	General Purpose I/O or PARA_REQ (DVD//Front End) or Sc1Clk (Smart Card 1 Clock)
17	PIO0 [4]	I/O	General Purpose I/O or PARA_STR (DVD//Front End) or Sc1RST (Smart Card 1 Reset)
20	PIO0 [5]	I/O	General Purpose I/O or PARA_DATA[0] (DVD//Front End) or Sc1Cmd V _{CC} (Smart Card 1 Voltage Enable)
21	PIO0 [6]	1/0	General Purpose IO or Sc1DataDir (Smart Card 1 Dir)
22	PIO0 [7]	1/0	General Purpose I/O or PARA_DATA[1] (DVD//Front End) or Sc1Detect(Smart Card 1 Detect)
9	PIO1 [0]	I/O	General Purpose I/O or I ² C Data
10	PIO1 [2]	1/0	General Purpose I/O or I ² C Clock
198, 199	PIO1 [3:4]	I/O	General Purpose IO
11	PIO1 [5]	I/O	General Purpose IO or ASC1 TXD
12	PIO1 [6]	I/O	General Purpose IO or ASC1 RXD
13	PIO1 [7]	I/O	General Purpose IO or ASC3 TXD
3	PIO2 [0]	I/O	General Purpose I/O or Sc0Data (Smart Card 0 Data I/O)
5	PIO2 [3]	I/O	General Purpose I/O or Sc0Clk (Smart Card 0 Clock)
6	PIO2 [4]	I/O	General Purpose I/O or Sc0RST (Smart Card 0 Reset)
7	PIO2 [5]	I/O	General Purpose I/O or Sc0CmdV _{CC} (Smart Card 0 Voltage Enable)
8	PIO2 [7]	I/O	General Purpose I/O or Sc0Detect (Smart Card 0 Detect)
201	PIO3 [0]	I/O	General Purpose IO or OSLink In
202	PIO3 [1]	I/O	General Purpose IO or OSLink Out
203	PIO3 [2]	I/O	General Purpose IO or CPUReset
204	PIO3 [3]	I/O	General Purpose IO or CPU Analyse
205	PIO3 [4]	I/O	General Purpose IO or ErrorOut
206, 207, 2	PIO3 [5:7]	I/O	General Purpose IO
191-197	PIO4 [0:6]	I/O	General Purpose IO
14	PIO4 [7]	I/O	General Purpose IO or ASC3 RXD
JTAG INTERFACE			
188	TCK		Test Clock
186	TDI	ı	Test Data Input
189	TDO	0	Test Data Input
187	TMS	ı	Test Mode Select
190	TRST	I	Test Reset
SYSTEM USE			
28	PWM2	0	PWM2 Output
27	PWM1/BOOTFROMROM	O/I	PWM1 Output or Configuration Oslink Pins
26	PWM0/OSLINK_SEL	O/I	PWM0 Output or Boot from ROM during Reset
29	RST	ı	Reset
116	AUXCLK	0	Auxilary Clock for Any Purpose

16/195

II - PIN DESCRIPTION (continued)

II.2 - Pin List (continued)

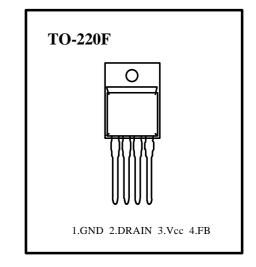
			STi5505 (Rev. BB
II - PIN DESCRIPTION (continued)	DE	Function
Pin	Name	Туре	Function
SDRAM INTERFACE			
78-81, 69, 70-74, 82, 83	AD[0:11]	0	SDRAM Address Bus
92-94, 97-101, 106-109, 112-115	DQ[0:15]	I/O	SDRAM Data (Lower Byte)
84, 85	SDCS[0:1]	0	SDRAM Chip Selects
89	SDCAS	0	SDRAM CAS
88	SDRAS	0	SDRAM RAS
90	SDWE	0	SDRAM Write Enable
104	MEMCLKIN	I	SDRAM Memory Clock Input
76	MEMCLKOUT	0	SDRAM Memory Clock Output
91	DQML	0	DQ Mask Enable (Lower)
105	DQMU	0	DQ Mask Enable (Upper)
XTERNAL MEMORY INTE	RFACE		
161-170, 173-183	ADR[1:21]	I/O	External Memory Address Bus
141-148, 151-158	DATA[0:15]	I/O	External Memory Data Bus
128	RAS1/HOLDREQ	0	DRAM RAS or reserved
136	WAIT/READY	I/O	External Wait States or Reserved
133	R/W/DMAACK	I/O	DRAM R/W Strobe or Reserved
121, 122	BE[0:1]	0	Byte enable
129	CAS0/HOLDACK	O/I	DRAM CAS or Reserved
132	CAS1/DMAREQ	0	DRAM CAS or Reserved
124-126	CE[1:3]	0	Chip Select for Banks 1 - 3
135	CS	- 1	Reserved
137	PROCCLK	I/O	ST20 Clock or Reserved
127	RAS0/CE0	0	DRAM RAS or Chip Select for Bank 0
134	DMAXFER	I	Reserved
138	PPC_MODE	I	Reserved
123	ŌĒ	I/O	Output Enable or Reserved
DAV/P1394 INTERFACE			
30	TEST1	I/O	DATA_RX/STROBE_TX (SDAV Mode) or SDAV_CLF (P1394 Mode) or PARA_DATA[6] (DVD//)
31	TEST2	I/O	STROBE_RX/DATA_TX (SDAV Mode) o DATA_IN/DATA_OUT (P1394 Mode) o PARA_DATA[7] (DVD//)
32	TEST3	I/O	Direction (SDAV Mode) or DATA_VALID In/Out (P1394 Mode)
MISCELLANEOUS			
41	TEST5	0	NRSS_OUT (DVB/DSS)
33	TEST4	I	PARA_DVALID (DVD//) : Data valid on front end paralle interface



KA1M0380 S P S

FEATURES

- Precision fixed operating frequency (70KHz)
- Pulse by pulse over current limiting
- Over load protection
- Internal thermal shutdown function
- Under voltage lockout
- Internal high voltage sense FET
- Low start up current (<0.4mA)



PRODUCT SUMMARY

Part Number	BVdss	Rds(on)	ΙD
KA1M0380	800V	5 Ω	3A

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C, unless otherwise specified)

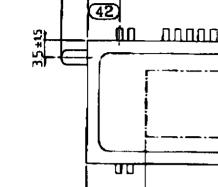
Characteristics	Symbol	Value	Unit
Drain - Source(GND) Voltage (1)	Vdss	800	V
Drain - Gate Voltage ($Rs = 1M\Omega$) (1)	Vdgr	800	V
Gate - Source(GND) Voltage	Vgs	±30	V
Rise Time (2)	Tr	95	ns
Fall Time (2)	Tf	60	ns
Drain-Sourse Off State Leakage Curren (Vds = 0V, Vgs = 0V)	Idss	250	uA
Continuous Drain Current (Tc = 23°C)	ID	3.0	Adc
Supply Voltage	Vcc	30	V
Analog Input Voltage Range	VfB	-0.3 ~ Vsd	V
Total Dayson Dissination	PD (wt H/S)	20	W
Total Power Dissipation	Derating	0.28	W/ °C
Operating Temperature	Topr	- 25 ~ + 85	°C
Storage Temperature	Tstg	- 55 ~ + 150	°C

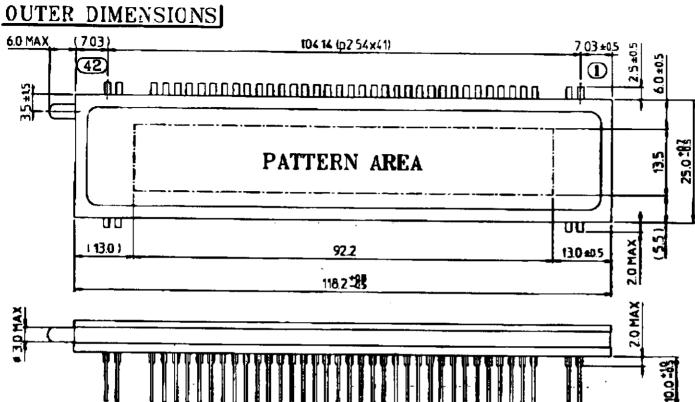
Notes: (1) $T_J = 25^{\circ}C$ to $150^{\circ}C$

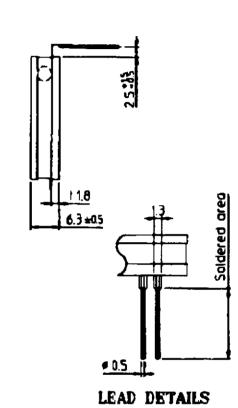
(2) VDD = 400V, ID = Max. Rating, VGS = 10V



Rev. B







PIN CONNECTION

										_
0	9	8	7	6	5	4	3	2	1	
			į							

PIN NO.	42	41	40	39	38	37	36	3 3	5 3	4 3	13	32	31	30	29	21	2	7 2	6	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	0 8		7	7	6	5	4	3	5	1
CONNECTION	FZ	F2	NP	NP	Pi	P2	P.	P	4 1	P5 E	96	P7	PØ	P9	P10	PI	1Pl	2 P	13	714	P1 5	Pie	P17	P18	PIS	P2 (P21	P22	NC	110	100	9G	80	70	: 81	G 5	G 4	G 3	G 2	:G	IG	NP	NP	F1	Fi

• Notes •

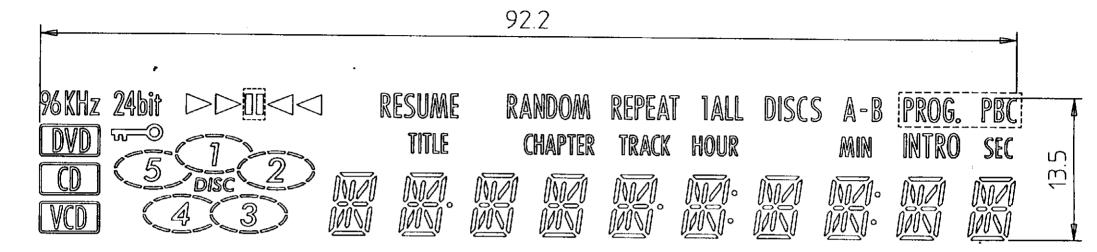
1) Fn: Filament pin
2) nG: Grid pin
3) Pn: Anode pin
4) NC: No Connected pin
5) NP: No pin

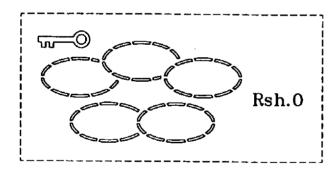
MODEL: HNV-11SM07 OUTER DIMENSIONS Rev. (2) 1-Nov-99

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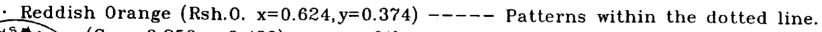
PATTERN DETAILS

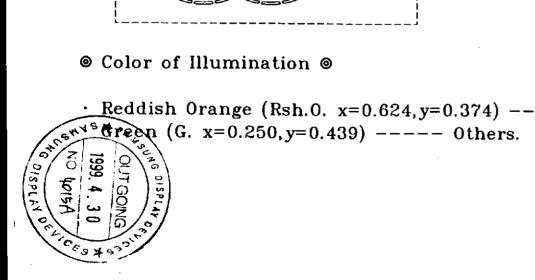












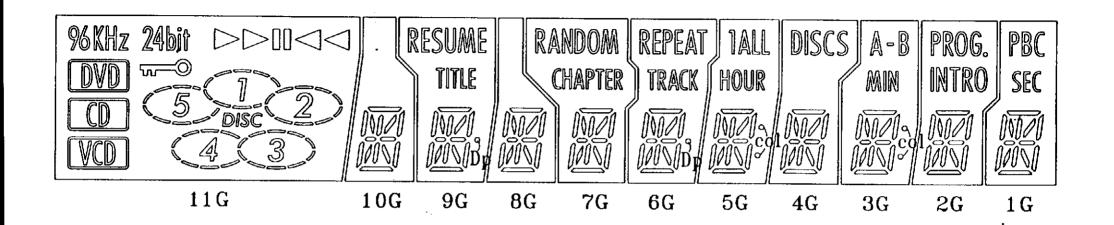
MODEL: HNV-11SM07 PATTERN DETAILS Re v. (2) 16-Apr-99

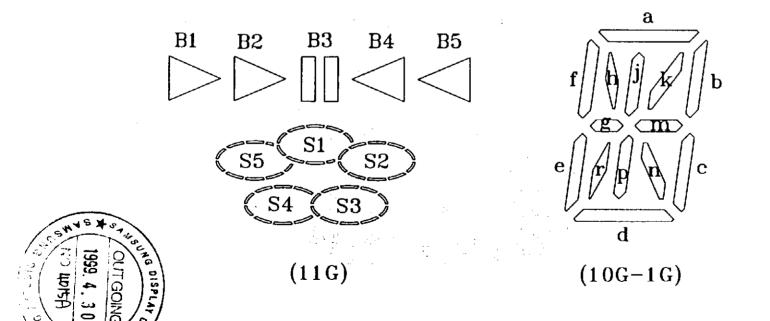
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GRID ASSIGNMENT

VTト州リ







MODEL: HNV-11SM07 GRID ASSIGNMENT Rev. 2 16-Apr-99

ANODE CONNECTION



	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1 G
P1	B5	a	a	а	a	a	a	a	a	a	a
P2	B4	h	h	h	h	h	h	h	h	h	h
P3	В3	j	j .	j	j	j	j	j	j	j	i
P4	B2	k	k	k	k	k	k	k	k	k	k
P5	B1	b	b	b	b	b	b	b	b	b	b
P6	24bit	f	f	f	f	f	f	f	f	f	· · f
P7	%KHz	m	m	m	m	m	m	m	m	m	m
P8	₩ <u>₩</u>	g	g	g	g	g	තු	g	g	g	· g
P9	1	n	n	n	n	n	n	n	n	n	n
P10	S1	р	р.	p	р	р	р	р	р	р	p
P1 1	2	r	r	r	r	r	r	r	r	r	r
' P12	S2	c	С	С	С	c	c	c	С	С	c
P13	3	e	e	е	е	е	e	е	е	е	е
P1 4	S3	d	d	d	d	d	d	d	d	d	d
P15	Ą	-	DP	_	_	DP	col	_	col	_	-
P16	S4	_	RESUME	_	RANDOM	REPEAT	١	DISC	À-	PROG.	PBC
P17	5	-	TITLE	_	CHAPTER	TRACK	ALL	S	8	INTRO	SEC
P18	S5	_			<u> </u>	_	HOUR		MAIN	_	
P19	DISC		_	_	_	-		_	_		
P20	(DVD)	_		wate	-	_	_	_	<u> </u>		_
P21		-	_	_		_	_				_
P22	[VO]		_		_				_	-	_



MODEL: HNV-11SM07 ANODE CONNECTION Rev. ② 16-Apr-99







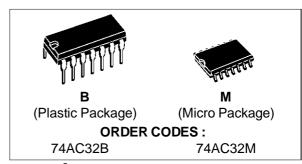
74AC32

QUAD 2-INPUT OR GATE

- HIGH SPEED: $t_{PD} = 4$ ns (TYP.) at $V_{CC} = 5V$
- LOW POWER DISSIPATION: $I_{CC} = 4 \mu A \text{ (MAX.)}$ at $T_A = 25 \,^{\circ}\text{C}$
- HIGH NOISE IMMUNITY: V_{NIH} = V_{NIL} = 28% V_{CC} (MIN.)
- 50Ω TRANSMISSION LINE DRIVING CAPABILITY
- SYMMETRICAL OUTPUT IMPEDANCE: |IOH| = IOL = 24 mA (MIN)
- BALANCED PROPAGATION DELAYS:
 tplh ≅ tphl
- OPERATING VOLTAGE RANGE:
 V_{CC} (OPR) = 2V to 6V
- PIN AND FUNCTION COMPATIBLE WITH 74 SERIES 32
- IMPROVED LATCH-UP IMMUNITY

DESCRIPTION

The AC32 is an advanced high-speed CMOS QUAD 2-INPUT OR GATE fabricated with sub-micron silicon gate and double-layer metal

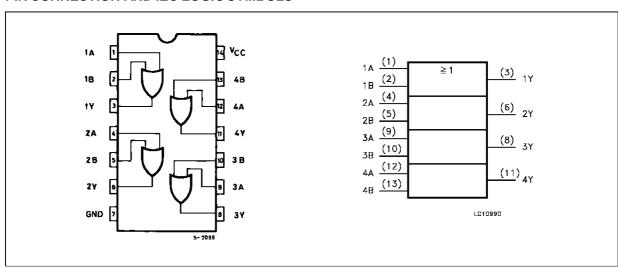


wiring C²MOS technology. It is ideal for low power applications mantaining high speed operation similar to equivalent Bipolar Schottky TTI

The internal circuit is composed of 2 stages including buffer output, which enables high noise immunity and stable output.

All inputs and outputs are equipped with protection circuits against static discharge, giving them 2KV ESD immunity and transient excess voltage.

PIN CONNECTION AND IEC LOGIC SYMBOLS



April 1997 1/7

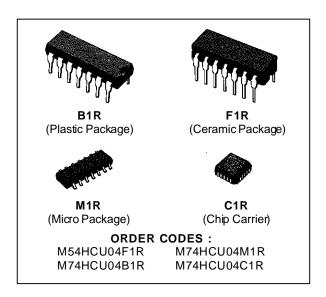


M54HCU04 M74HCU04

HEX INVERTER (SINGLE STAGE)

- HIGH SPEED
 - $t_{PD} = 5 \text{ ns (TYP.)} AT V_{CC} = 5 \text{ V}$
- LOW POWER DISSIPATION
 I_{CC} = 1 μA (MAX.) AT T_A = 25 °C
- HIGH NOISE IMMUNITY

 VNIH = VNIL = 10 % VCC (MIN.)
- OUTPUT DRIVE CAPABILITÝ
 10 LSTTL LOADS
- SYMMETRICAL OUTPUT IMPEDANCE | I_{OH} | = I_{OL} = 4 mA (MIN.)
- BALANCED PROPAGATION DELAYS tplh = tphl
- WIDE OPERATING VOLTAGE RANGE V_{CC} (OPR) = 2 V TO 6 V
- PIN AND FUNCTION COMPATIBLE WITH 54/74LS04



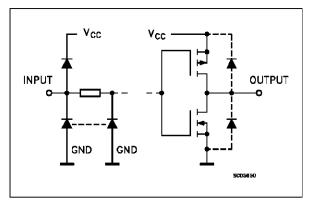
DESCRIPTION

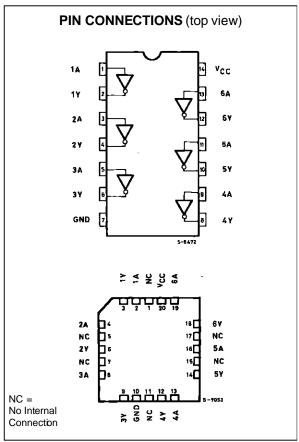
The M54/74HCU04 is a high speed CMOS HEX IN-VERTER (SINGLE STAGE) fabricated in silicon gate C²MOS technology. It has the same high speed performance of LSTTL combined with true CMOS low power consumption.

As the intrnal circuit is composed of a single stage inverter, it can be used in crystal oscillator.

All inputs are equipped with circuits against static discharge and transient excess voltage.

INPUT AND OUTPUT EQUIVALENT CIRCUIT





Ordering number: EN 2575B

No.2575B

Monolithic Digital IC

LB1641

Bidirectional Motor Driver

The LB1641 is a bidirectional motor driver IC. Since it has a 2-input logic circuit and performs the functions of bidirectional driving and braking, it is capable of direct driving 6V, 9V, 12V motors. The output voltage can be varied by using an external zener diode.

Features

- . 2-input logic can be used to exercise control of bidirectional driving and braking.
- . On-chip elements to absorb dash current of motor
- . Input interfaceable to MOS LSI
- . Output voltage variable by use of external zener diode

Absolute Maximum Ratings at Ta	a=25 ⁰ C			un:	it	
Maximum Supply Voltage	V _{CC} max		18	} 7	v	
Input Voltage	VIN	-0.3			v	
Output Current	IQUT		to V _{CC}		Ā	•
Allowable Power Dissipation	Pdmax		1.2			
Operating Temperature	Topr	_25	to +75		-	
Storage Temperature	Tstg		_	_		*
overage remperature	TOOR	~>> t	0 +125	, -(,	
Allowable Operating Conditions	at Ta=25	o _C		un	i +	•
Supply Voltage			to 18		7	•
	VCC1		to 18			
	V _{CC2}	2	LO 10	1	V	•
Electrical Characteristics at	Ta=25°C.V	cc=12V	min	typ	max	unit
Input Threshold Voltage	Vth		1.1		1.5	V
Minimum Input ON-State Curr					15	-
Output Voltage		$R_L = 60$ ohms, $V_Z = 7.4$ V	6.6	7 2	ול פ	μA V
Output Leakage Current	To-	Pines 6 CMD P -	0.0			•
Current Dissipation	+OL	Pins5,6 GND, R _L =\infty	_		1.0	
Saturation Voltage (Upper)	+CC	Pins5,6 GND,R _L =∞			10	mA
pactraction vortage (opper)	VSati	V _{CC} =12V, I _{OUT} =300mA		_	2.2	·=
Cohumbian William /	vsat 1	V _{CC} =12V,I _{OUT} =500mA			2.3	
Saturation Voltage (Lower)	Vsat2	V _{CC} =12V, I _{OUT} =300mA		0.25	0.5	V
	Vsat2	V _{CC} =12V, I _{OUT} =500mA		0.4	0.65	V

Truth Table

In	out	Out	put	Operation				
IN1	IN2	OUT 1	OUT2	Operación				
0	0	0	0	Braking				
1	0	1	0	Forward (reverse) drive				
0	1	0	1	Reverse (forward) drive				
1	1	0	0	Braking				

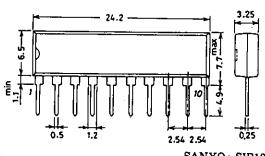
Input level

1: 2.0V or greater

0: 0.7V or less

Package Dimensions 3043A

(unit: mm)



SANYO: SIP10

ASAHI KASEI [AK4393]



AK4393

Advanced Multi-Bit 96kHz 24Bit ΔΣ DAC

General Description

AK4393 is a high performance stereo DAC for the 96kHz sampling mode of DAT,DVD including a 24bit digital filter. The AK4393 introduces the advanced multi-bit system for $\Delta\Sigma$ modulator. This new architecture achieves the wider dynamic range, while keeping much the same superior distortion characteristics as conventional Single Bit way. In the AK4393, the analog outputs are filtered in the analog domain by switched-capacitor filter(SCF) with high tolerance to clock jitter. The analog outputs are full differential output, so the device is suitable for hi-end applications. The operating voltages support analog=5V and digital=3.3V, so it is easy to I/F with 3.3V logic IC.

Features

- □ 128x Oversampling
- ☐ Sampling Rate up to 108kHz
- ☐ 24Bit 8 times Digital Filter

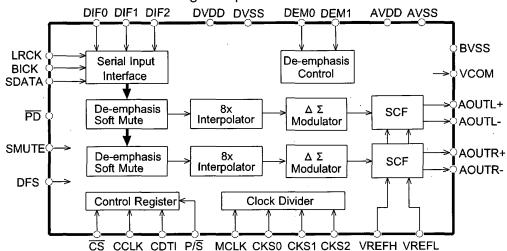
Ripple: ±0.005dB, Attenuation: 75dB

- ☐ High Tolerance to Clock Jitter
- □ Low Distortion Differential Output
- ☐ Digital de-emphasis for 32, 44.1, 48 & 96kHz sampling
- ☐ Soft Mute
- ☐ THD+N: -100dB
- ☐ DR, S/N: 120dB
- □ I/F format : MSB justified, LSB justified, I2S
- Master Clock

Normal Speed: 256fs, 384fs, 512fs or 768fs Double Speed: 128fs, 192fs, 256fs or 384fs

☐ Power Supply: 4.75 to 5.25V(Analog), 3 to 5.25V(Digital)

☐ Small Package: 28pin VSOP



ASAHI KASEI [AK4393]

■ Ordering Guide

AK4393VF $-40\sim+85^{\circ}$ C 28pin VSOP(0.65mm pitch) AKD4393 Evaluation Board

■ Pin Layout

		-			7	
DVSS	1			28		CKS2
DVDD	2			27		CKS1
MCLK	3			26		CKS0
\overline{PD}	4			25		P/S
BICK	5			24		VCOM
SDATA	6		œ.	23		AOUTL+
LRCK	7		Top View	22		AOUTL-
SMUTE	8			21		AOUTR+
DFS	9			20		AOUTR-
DEM0	10			19		AVSS
DEM1	11			18		AVDD
DIF0	12			17		VREFH
DIF1	13			16		VREFL
DIF2	14			15		BVSS
]	

ASAHI KASEI [AK4393]

PIN/FUNCTION

No.	Pin Name	I/O	Function
1	DVSS	-	Digital Ground Pin
2	DVDD	-	Digital Power Supply Pin, 3.3V or 5.0V
3	MCLK	1	Master Clock Input Pin
4	PD	Ι	Power-Down Mode Pin
			When at "L", the AK4393 is in power-down mode and is held in reset.
			The AK4393 should always be reset upon power-up.
5	BICK	I	Audio Serial Data Clock Pin
			The clock of 64fs or more than is recommended to be input on this pin.
6	SDATA	- 1	Audio Serial Data Input Pin
			2's complement MSB-first data is input on this pin.
7	LRCK	I	L/R Clock Pin
8	SMUTE	I	Soft Mute Pin
			When this pin goes "H", soft mute cycle is initiated.
			When returning "L", the output mute releases.
	CS	I	Chip Select Pin in serial mode
9	DFS	I	Double speed sampling mode Pin (Internal pull-down pin)
			"L": Normal Speed, "H": Double Speed
10	DEM0	l	De-emphasis Enable Pin
	CCLK	I	Control Data Clock Pin in serial mode
11	DEM1	l	De-emphasis Enable Pin
	CDTI	- 1	Control Data Input Pin in serial mode
12	DIF0	- 1	Digital Input Format Pin
13	DIF1	I	Digital Input Format Pin
14	DIF2	I	Digital Input Format Pin
15	BVSS	-	Substrate Ground Pin, 0V
16	VREFL	I	Low Level Voltage Reference Input Pin
17	VREFH	I	High Level Voltage Reference Input Pin
18	AVDD	-	Analog Power Supply Pin, 5V
19	AVSS	-	Analog Ground Pin, 0V
20	AOUTR-	0	Rch Negative analog output Pin
21	AOUTR+	0	Rch Positive analog output Pin
22	AOUTL-	0	Lch Negative analog output Pin
23	AOUTL+	0	Lch Positive analog output Pin
24	VCOM	0	Common Voltage Output Pin, 2.6V
25	P/S	- 1	Parallel/Serial Select Pin (Internal pull-up pin)
			"L": Serial control mode, "H": Parallel control mode
26	CKS0	ı	Master Clock Select Pin
27	CKS1	ı	Master Clock Select Pin
28	CKS2	I	Master Clock Select Pin

Note: All input pins except internal pull-down pins should not be left floating.



SEMICONDUCTOR

TECHNICAL DATA

KIA7019AP/AF ~ KIA7045AP/AF BIPOLAR LINEAR INTEGRATED CIRCUIT

VOLTAGE DETECTOR

Function of this IC is accurately resetting the system after detecting voltage at the time of switching power on and instantaneous power off in various CPU systems and other logic systems.

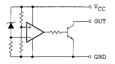
FEATURES

- · Current Consumption is Low. Icca=300aA Typ. Icca=30aA Typ.
- · Resetting Output Minimum Guarantee Voltage is Low 0.8V Typ.
- Hysteresis Voltage is Provided, 50mV Typ.
- · Reset Signal Generation Starting Voltages
 - | KIA7019AP, AF | 19V Typ. | KIA7033AP AF | 33V Typ. | KIA7021AP AF | 21V Typ. | KIA7031AP, AF | 35V Typ. | KIA7035AP AF | 23V Typ. | KIA7035AP AF | 35V Typ. | KIA705AP AF | 25V Typ. | KIA703AP, AF | 35V Typ. | KIA703AP, AF | 35V Typ. | KIA703AP, AF | 25V Typ. | KIA703AP, AF | 25V Typ. | KIA703AP, AF | 12V Typ. | KIA703AP, AF | 12V Typ. | KIA703AP, AF | 15V Typ. | 15V Typ. | KIA703AP, AF | 15V Typ. | 15V Ty
- · Taping Type is also Available.

APPLICATIONS

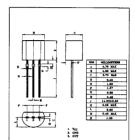
- 11: As Control Circuit of Battery-Backed Memory
- (2) As Measure Against Erroneous Operations at Power ON-OFF.
- (3) As Measure Against System Runaway at Instantaneous Break of Power Supply etc.
- (4) As Resetting Function for the CPU-Mounted Equipment, such as Personal Computers, Printers, VTRs and so forth.

EQUIVALENT CIRCUIT

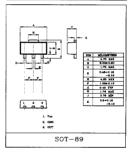


MAXIMUM RATINGS (Ta=25℃)

CHARACT	ERISTIC	SYMBOL	RATING	UNIT
Supply Voltage		Vec	-0.3~+15.0	V
Power Dissipation	KIA7019AP~45AP		400	
Package Limitation)	KIA7019AF ~ 45AF	Pn	500	mW
Operating Temperatur	re	Tope	-30~+75	r
Storage Temperature	Ting	-55 ~ + 150	t	

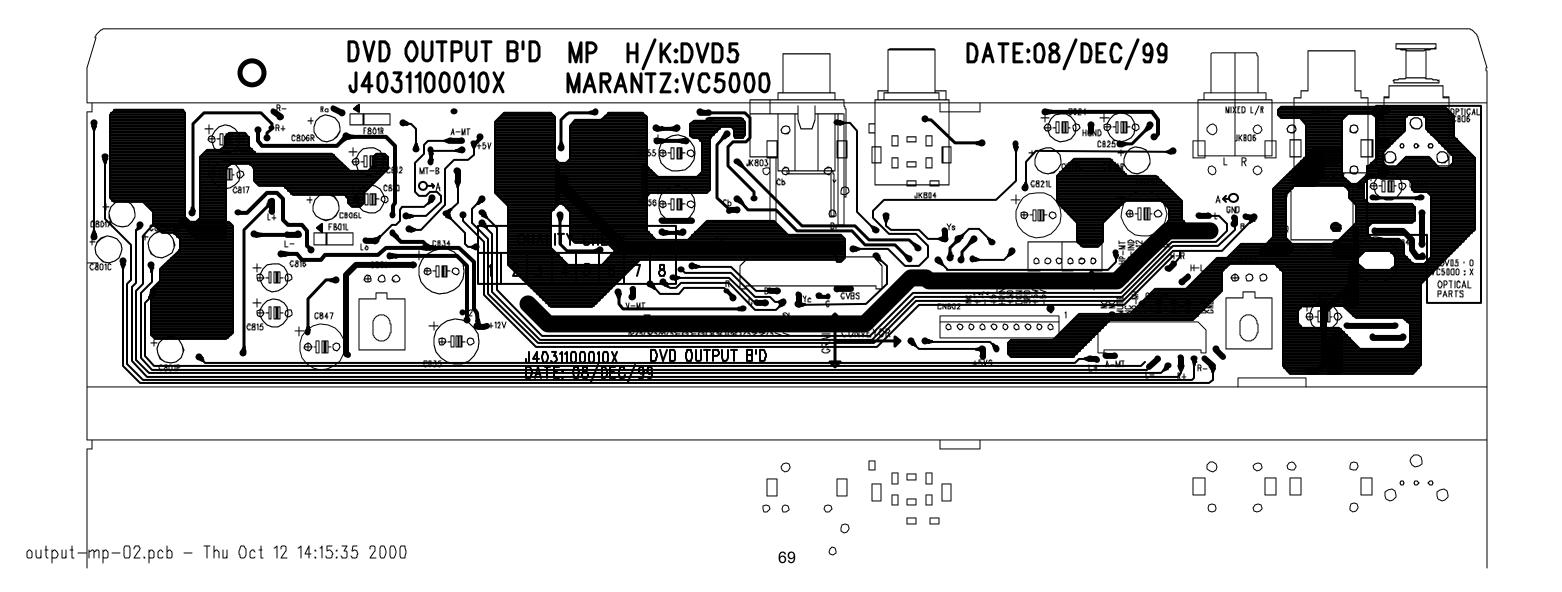


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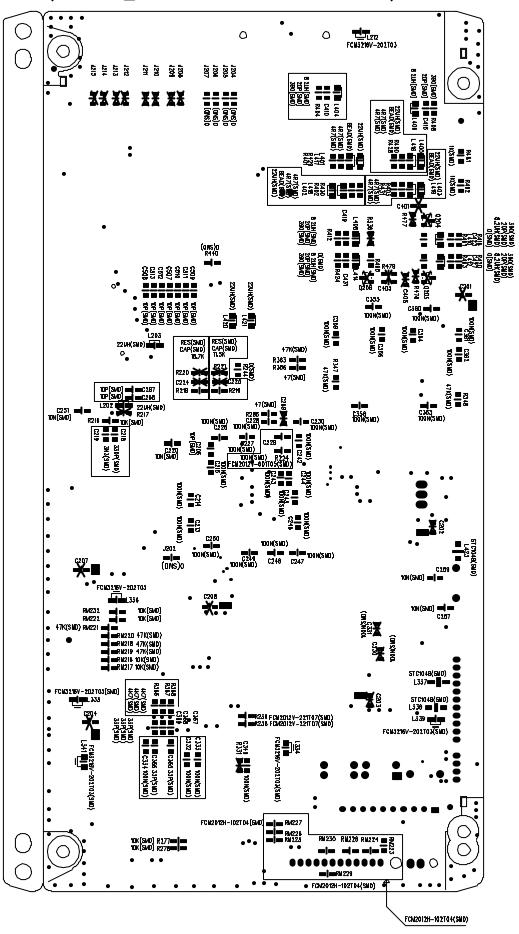


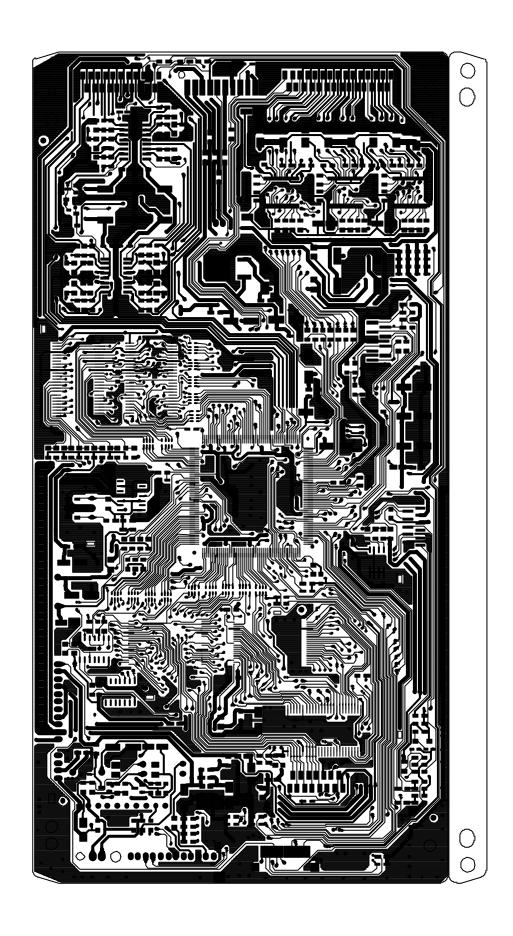
MARKING

Type No.	Marking	Type No.	Marking
KIA7019AF	6A	KIA7033AF	6]
KIA7021AF	6B	KIA7034AF	6K
KIA7023AF	6C	KIA7035AF	6L
KIA7025AF	6D	KIA7036AF	61/1
KIA7027AF	6E	KIA7039AF	6N
KIA7029AF	6F	KIA7042AF	6P
KIA7031AF	6G	KIA7045AF	6R
KIA7032AF	6H		

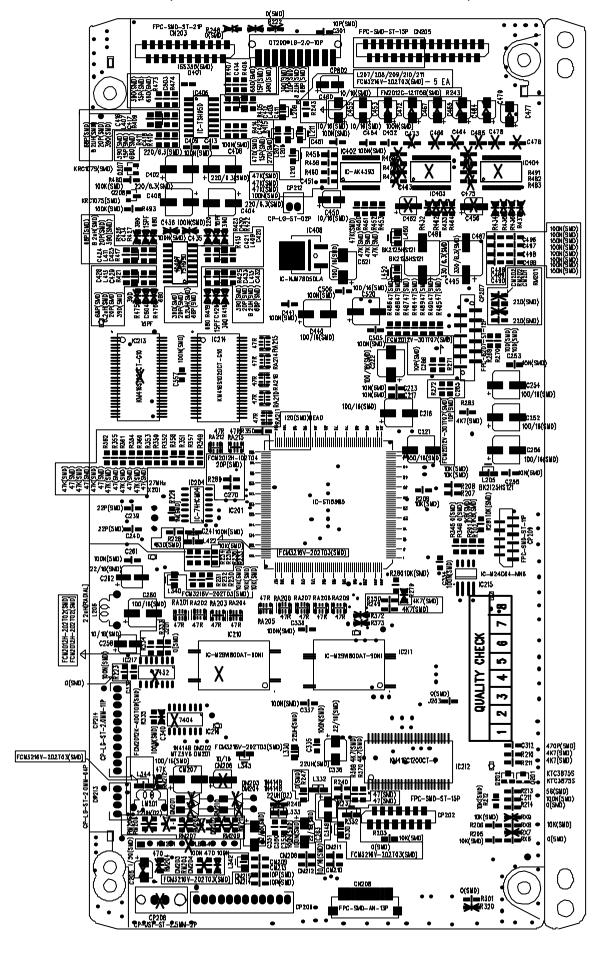


/* DVD5_EU BOTTOM INSERT DRAWING */

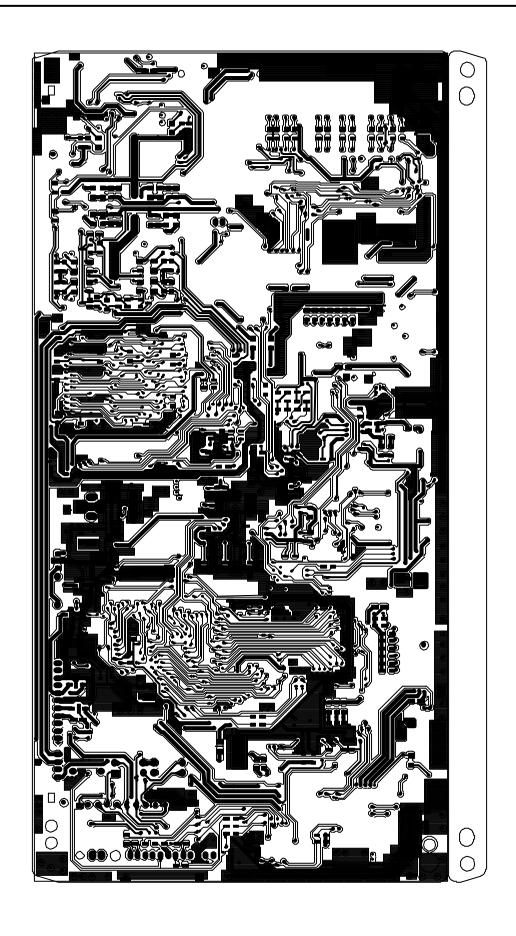




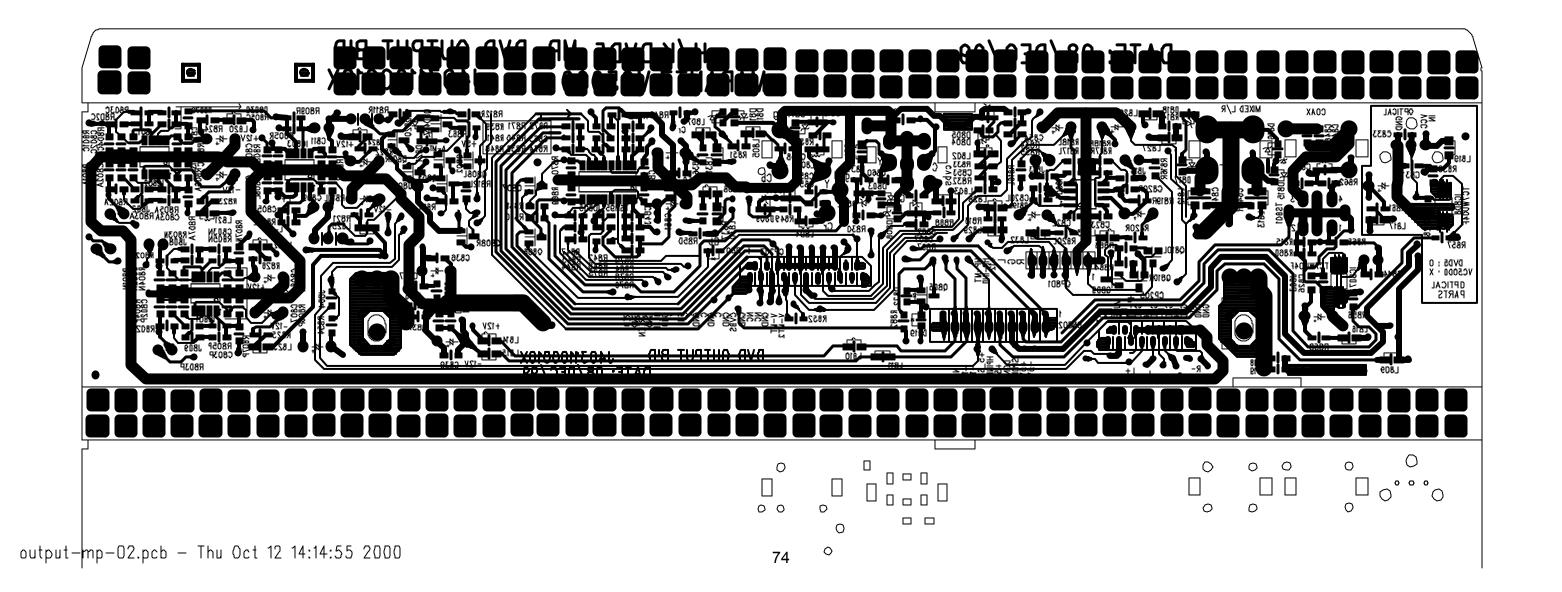
/*DVD5.VC5000_US TOP INSERT DRAWING*/

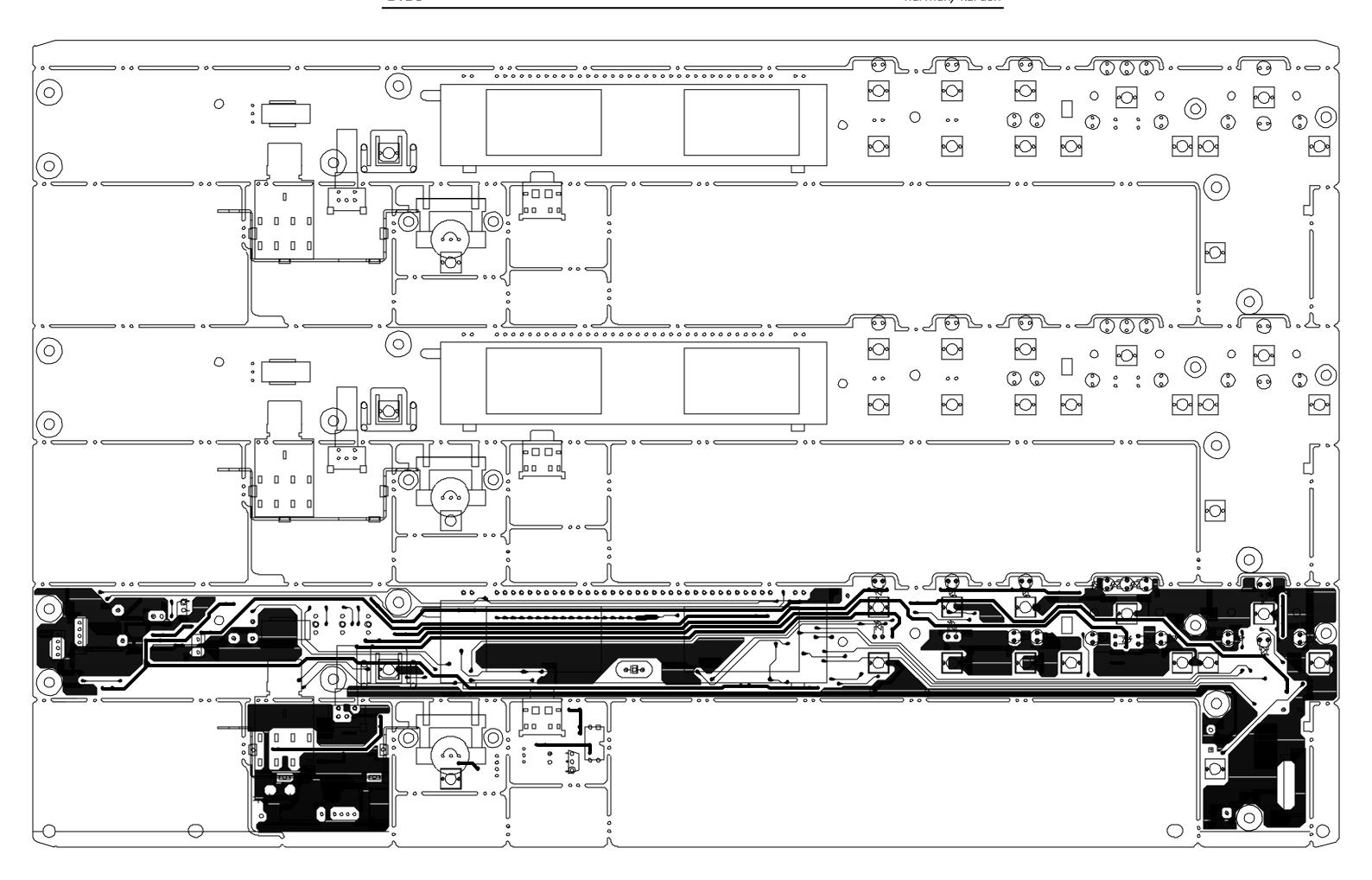


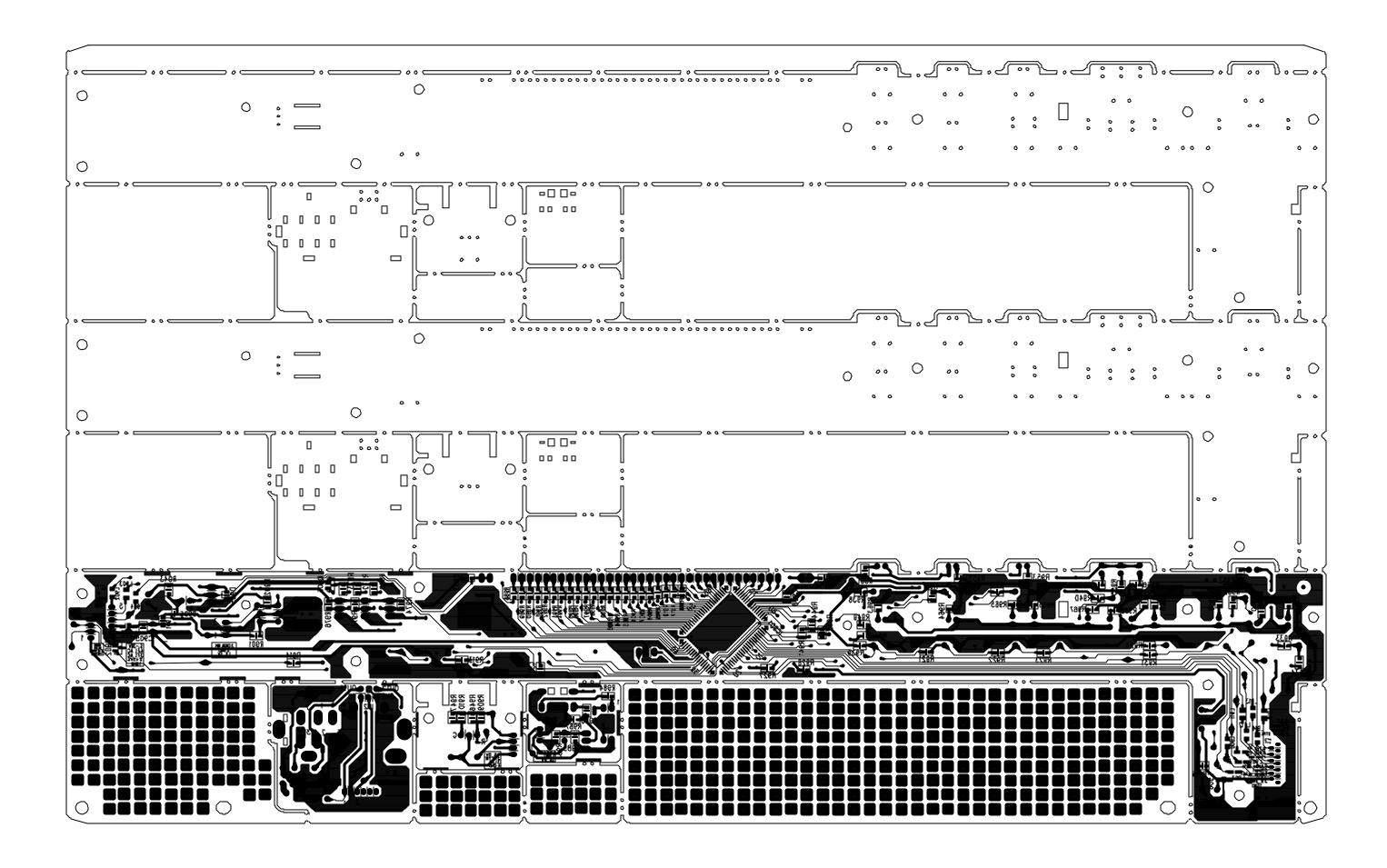
DVD5_VC5000_MP_INSERT-T - Thu Oct 12 14:21:41 2000

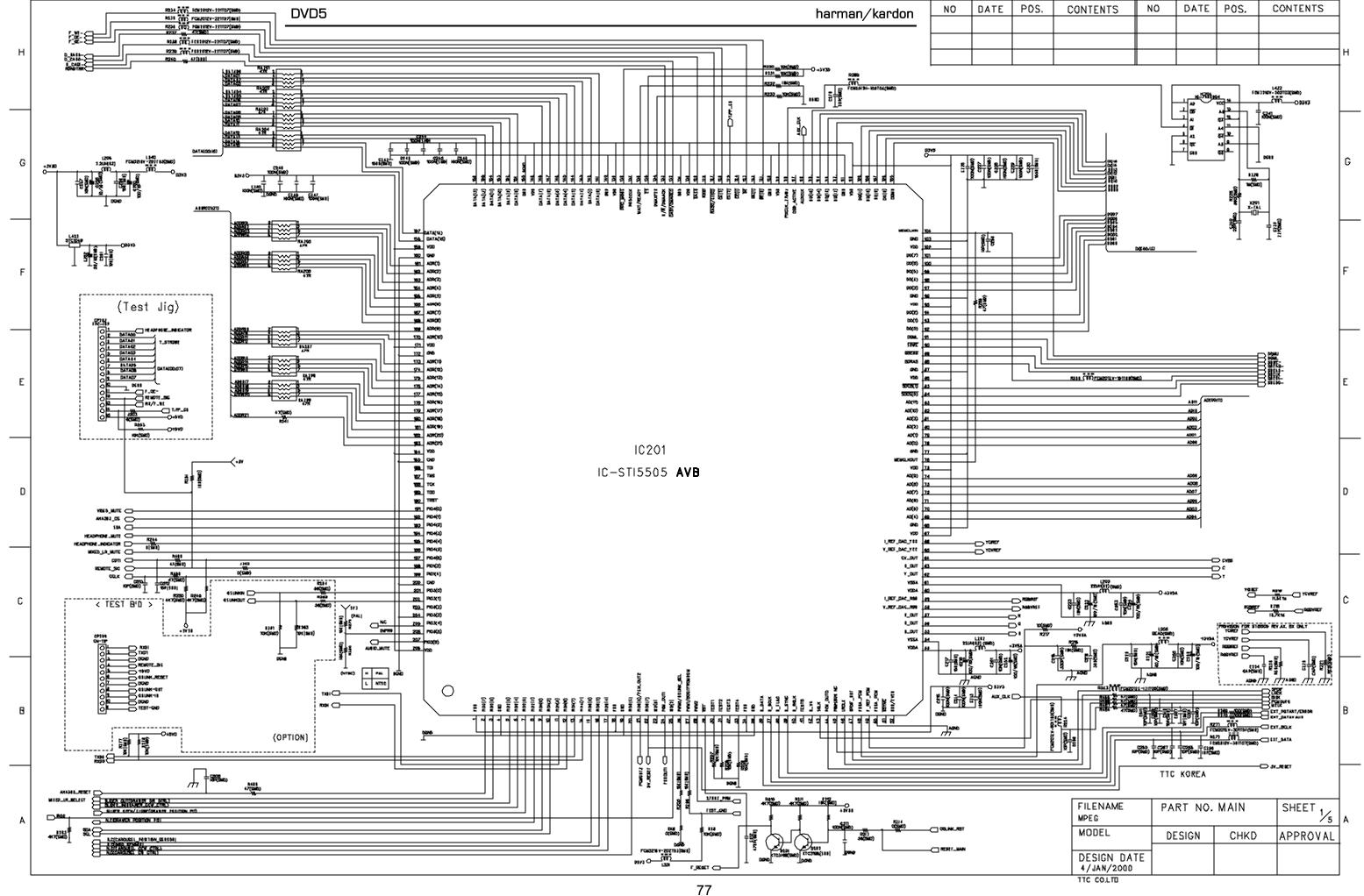


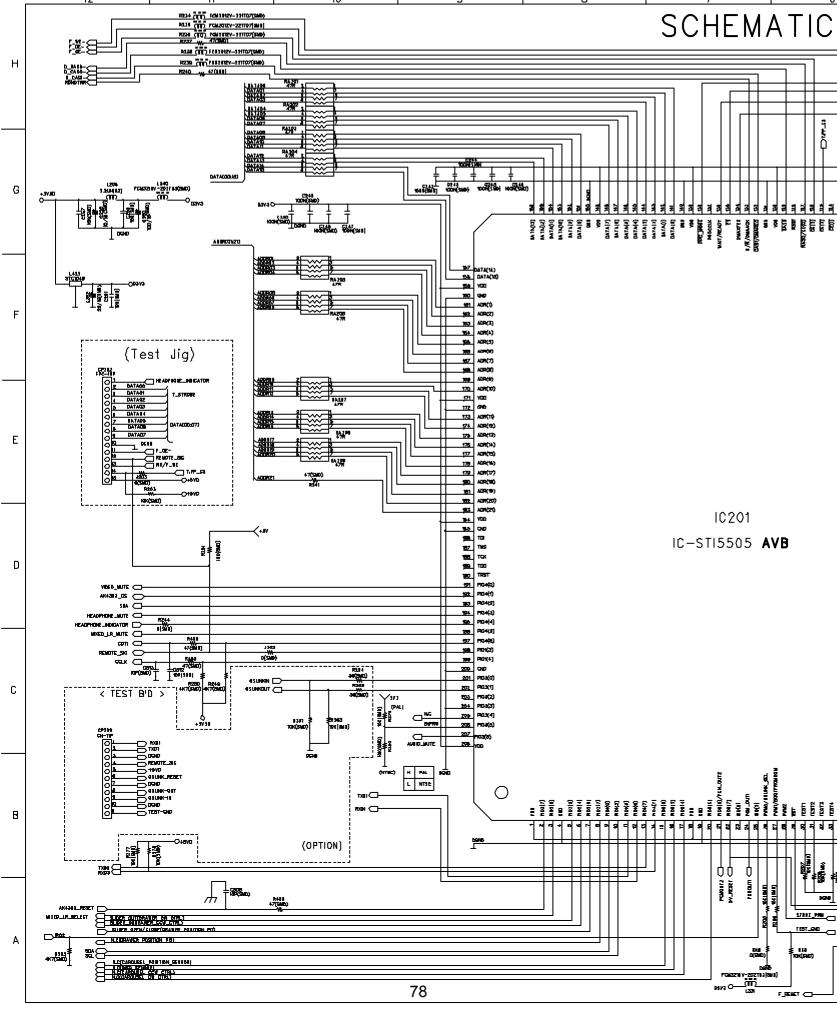
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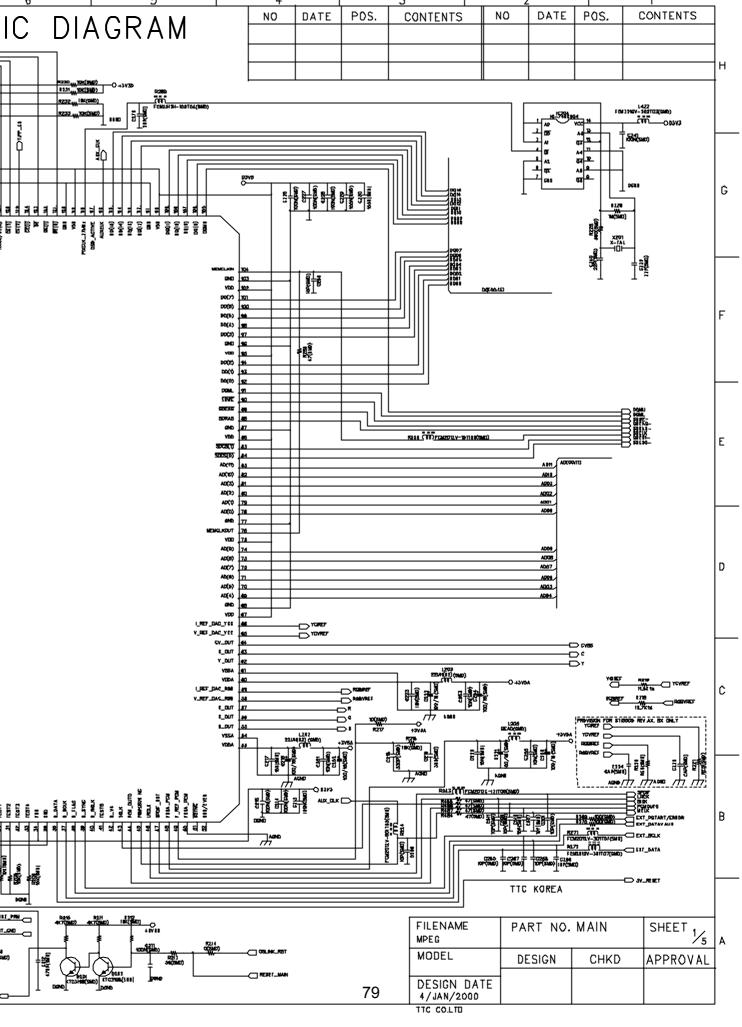


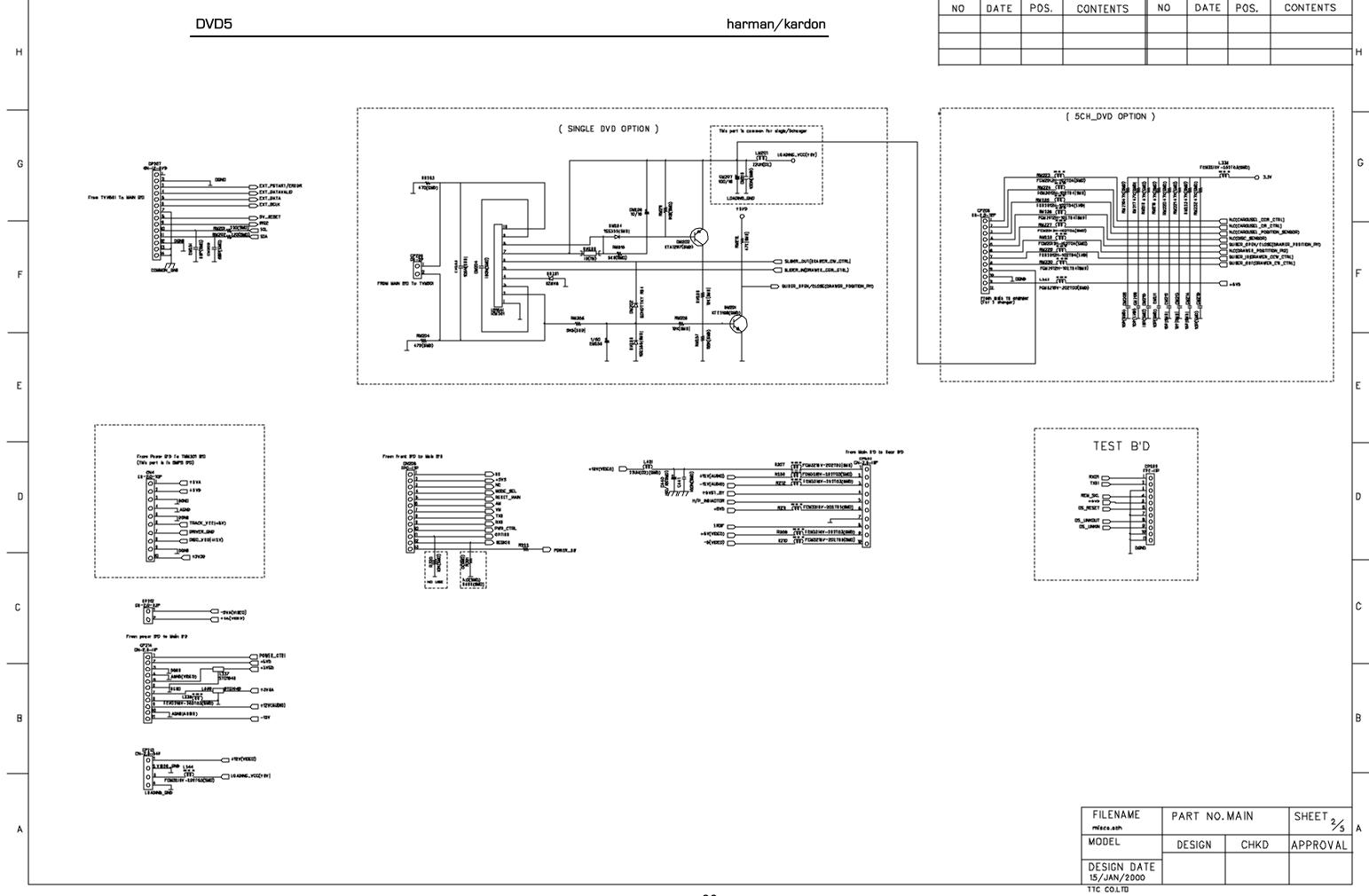


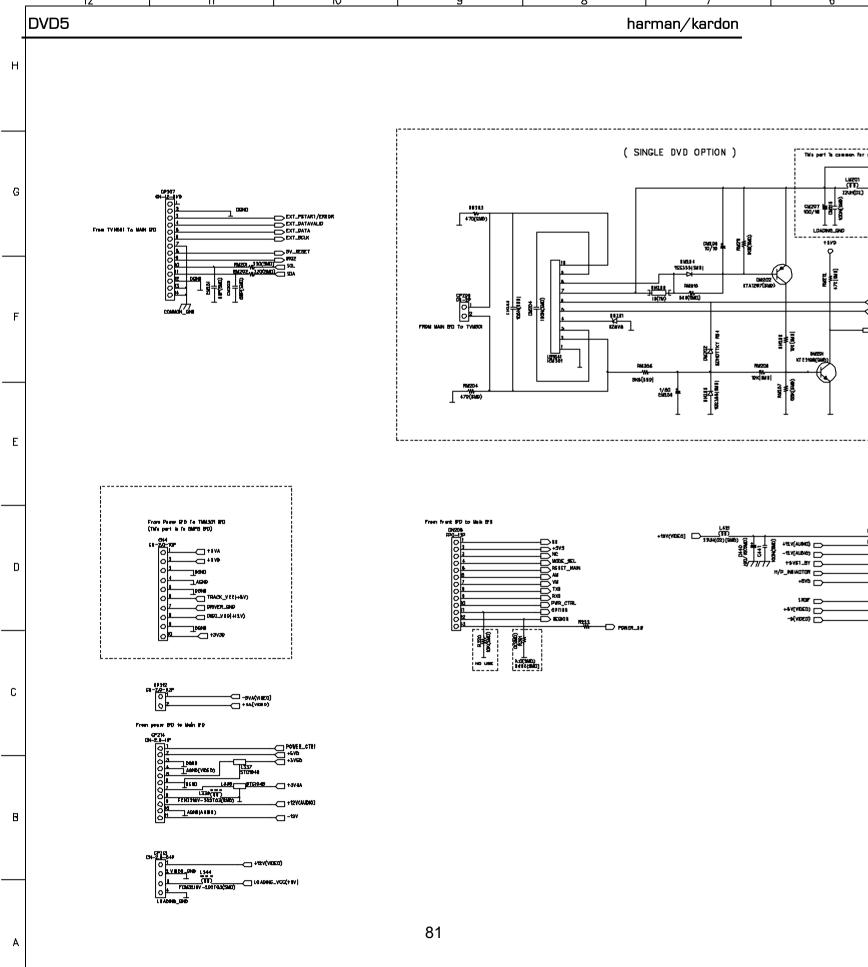


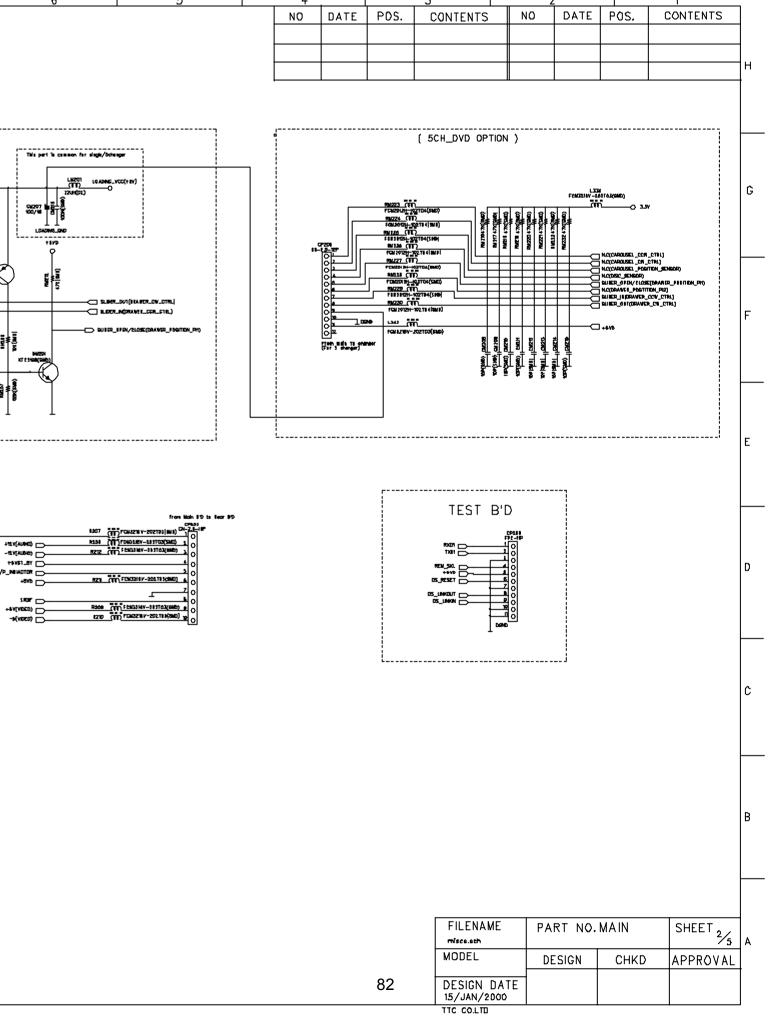


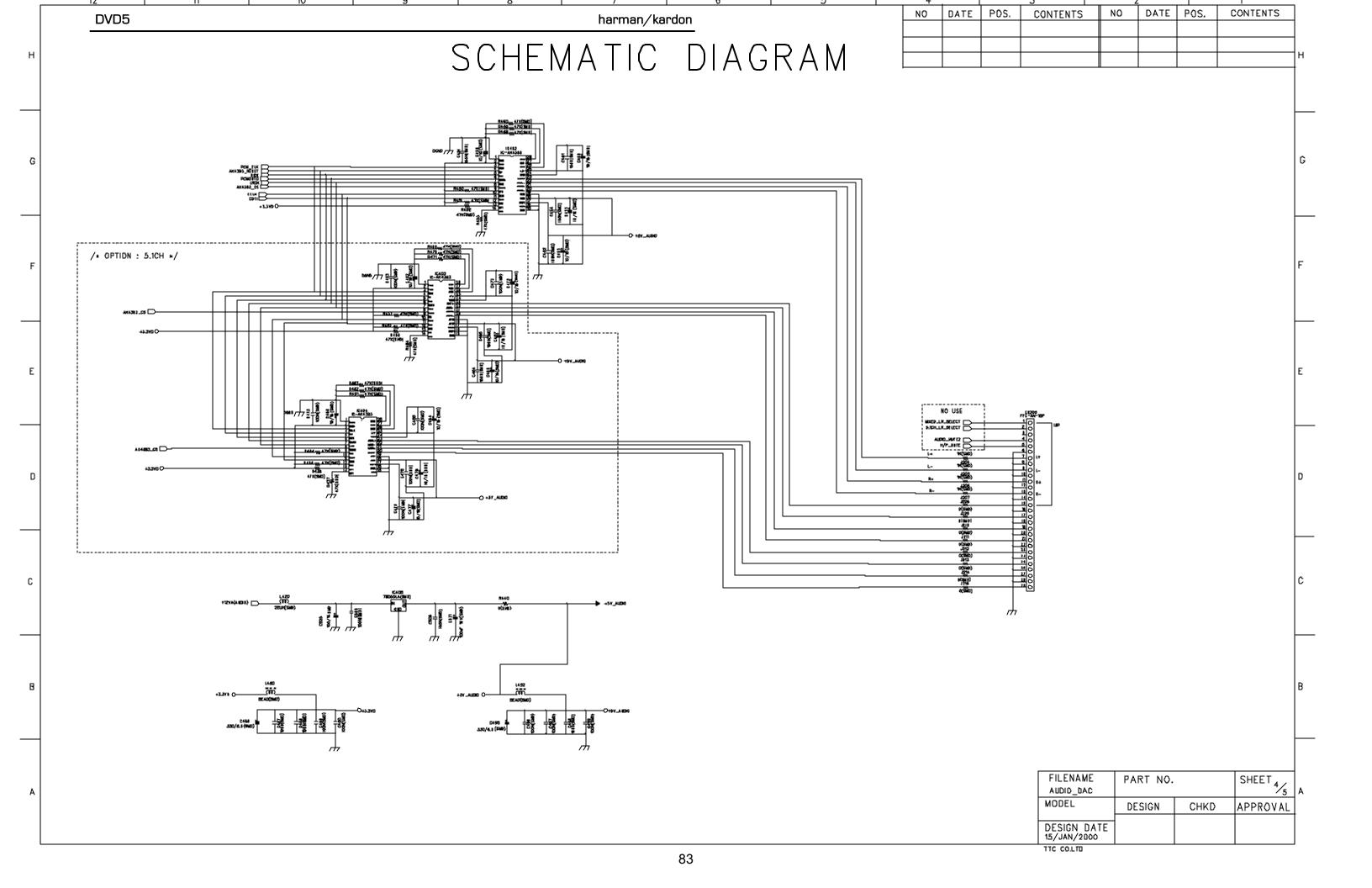










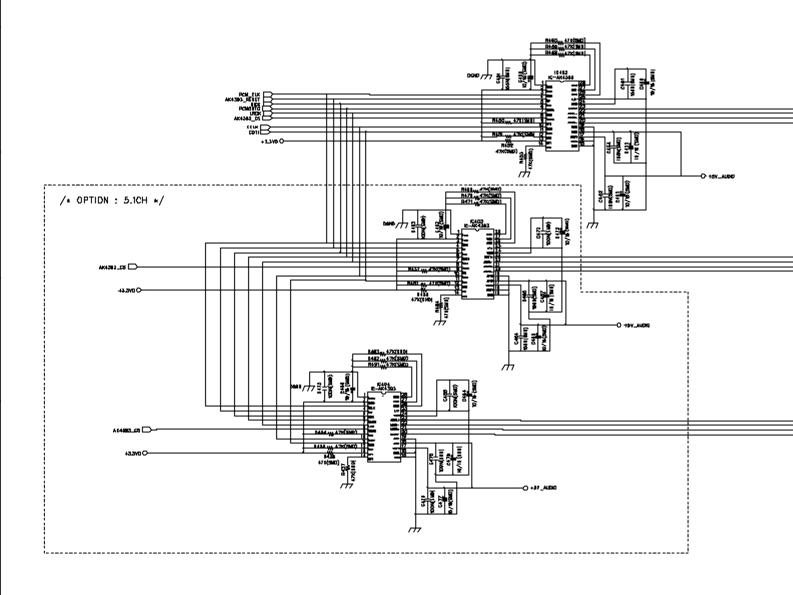


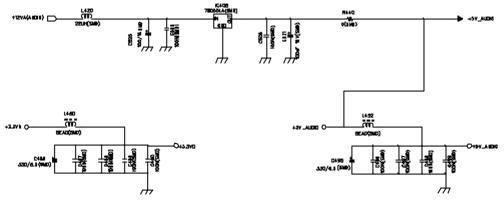
DVD5

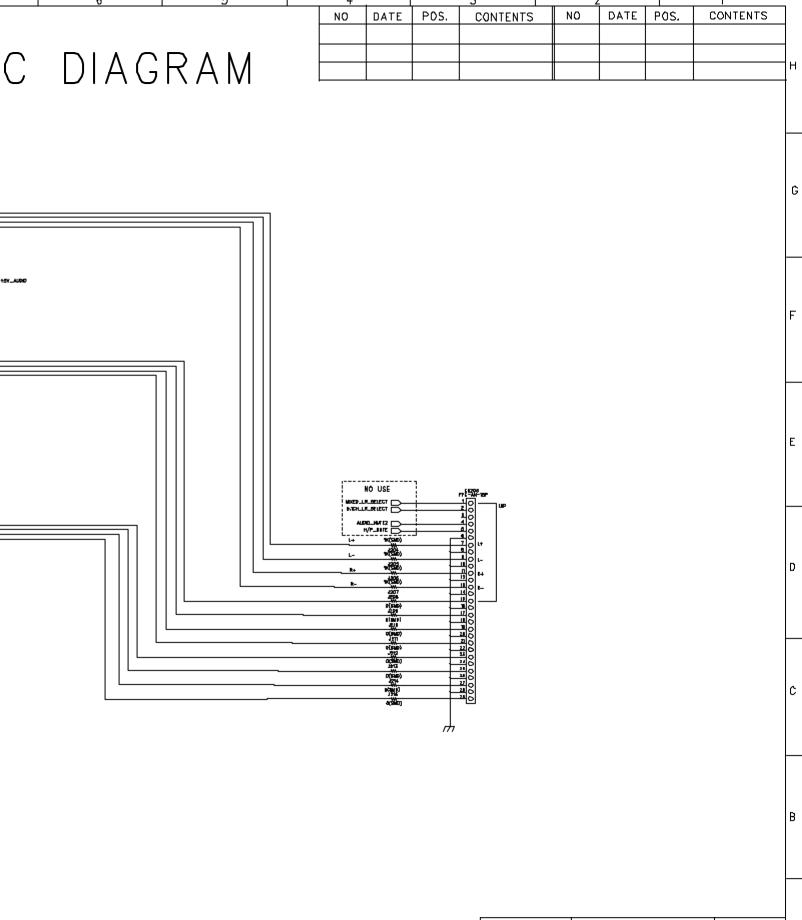
Н

harman/kardon

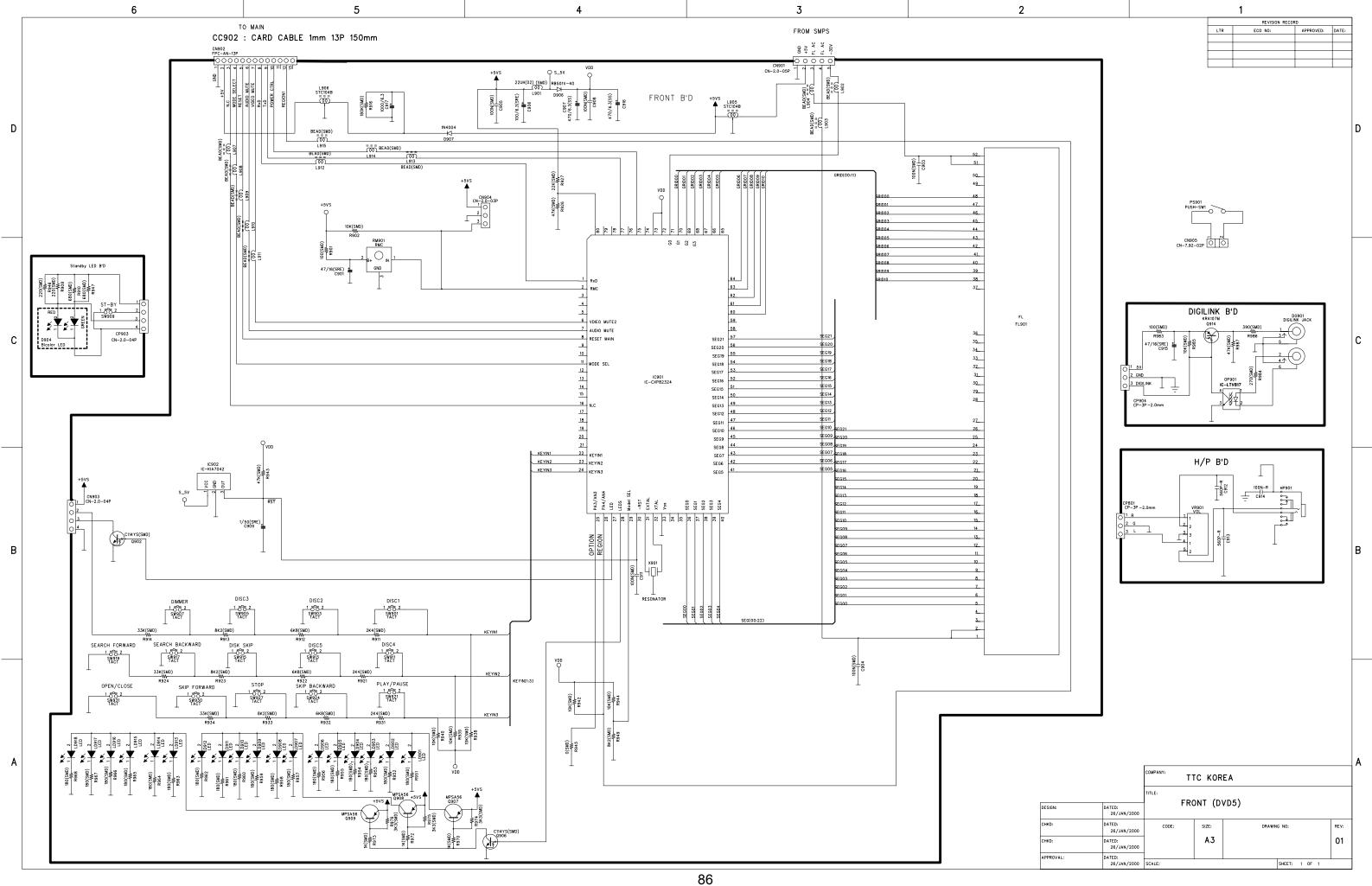
SCHEMATIC

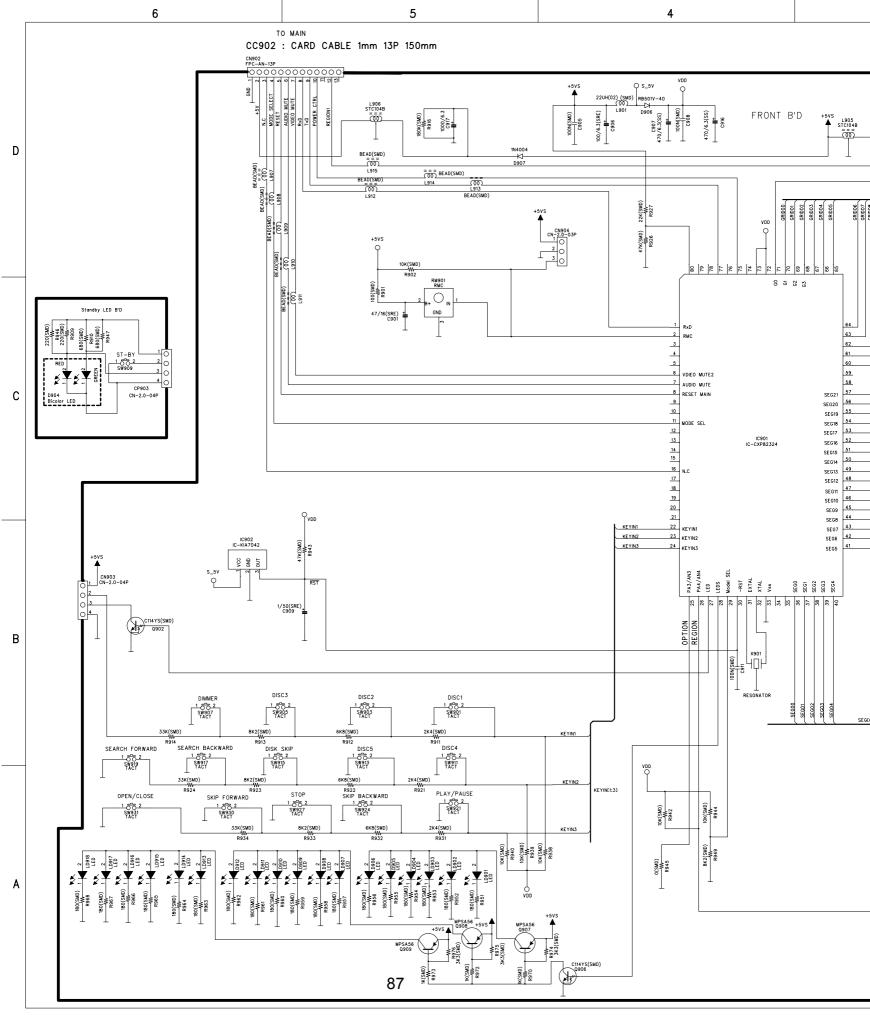


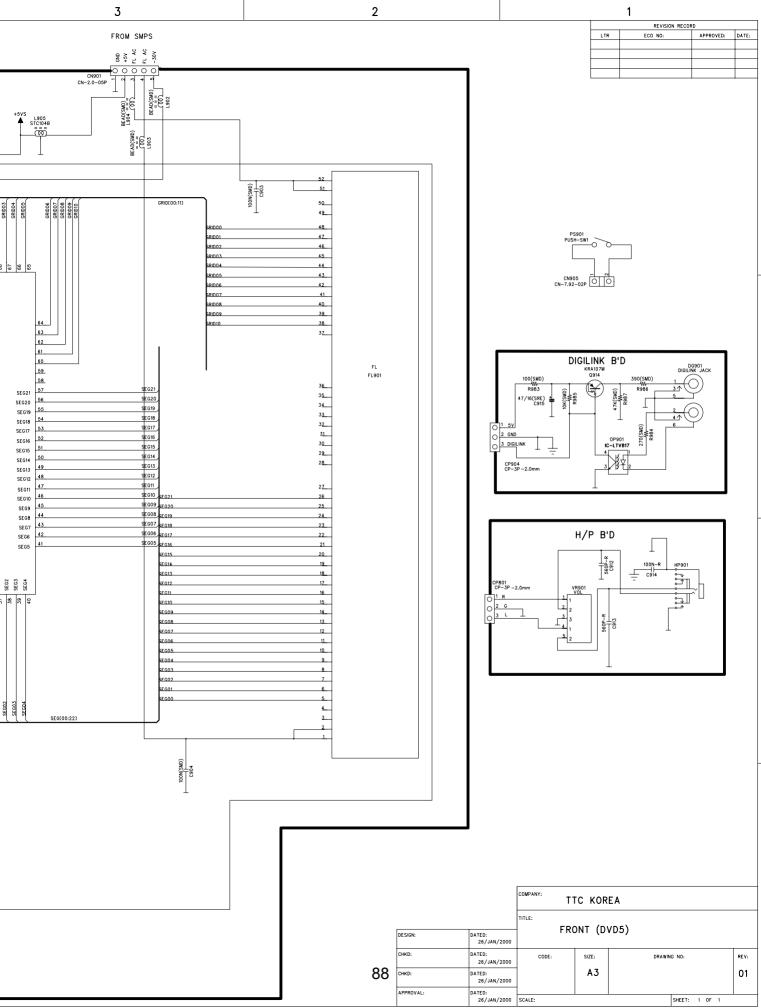


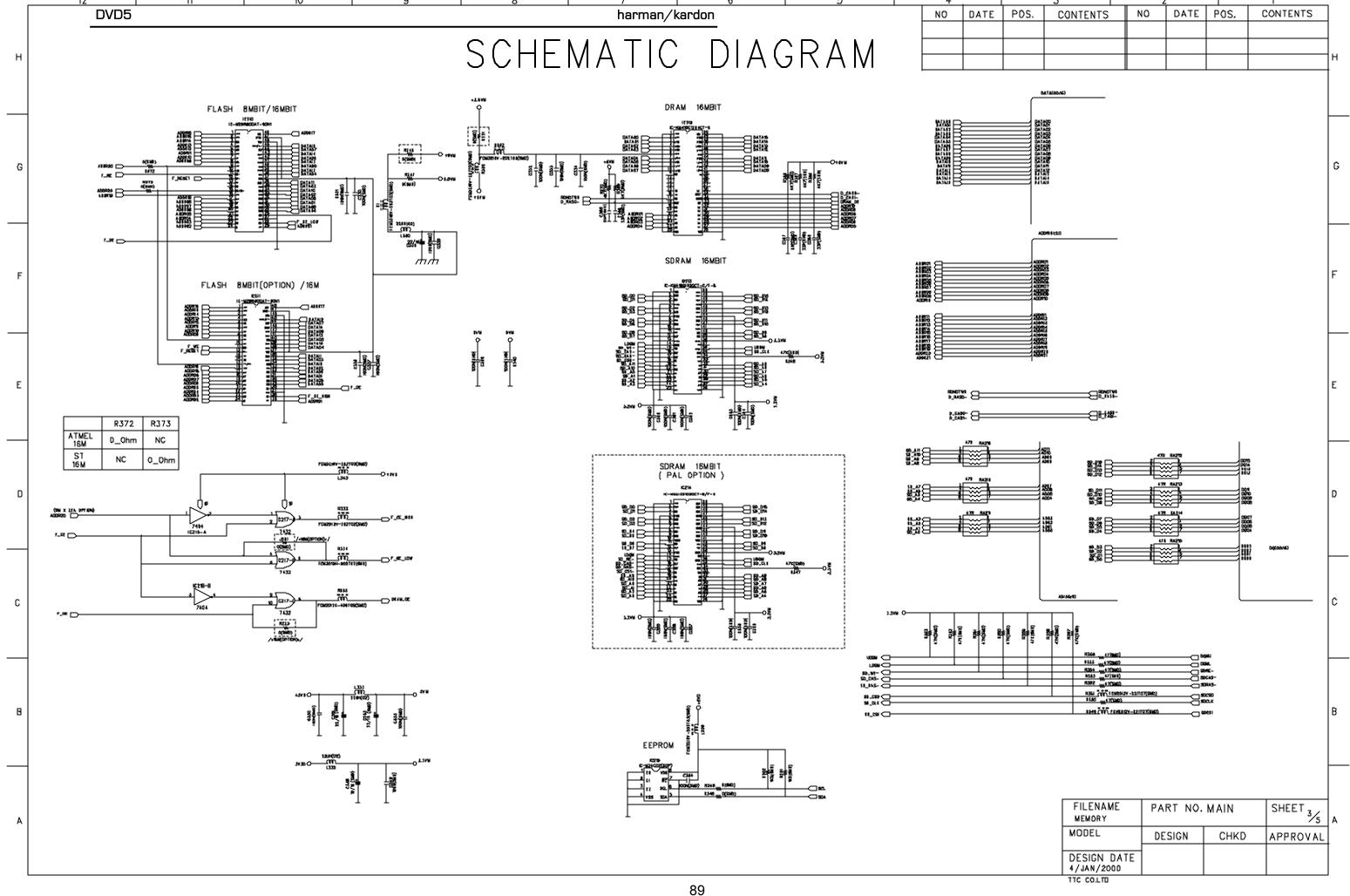


DECION DATE

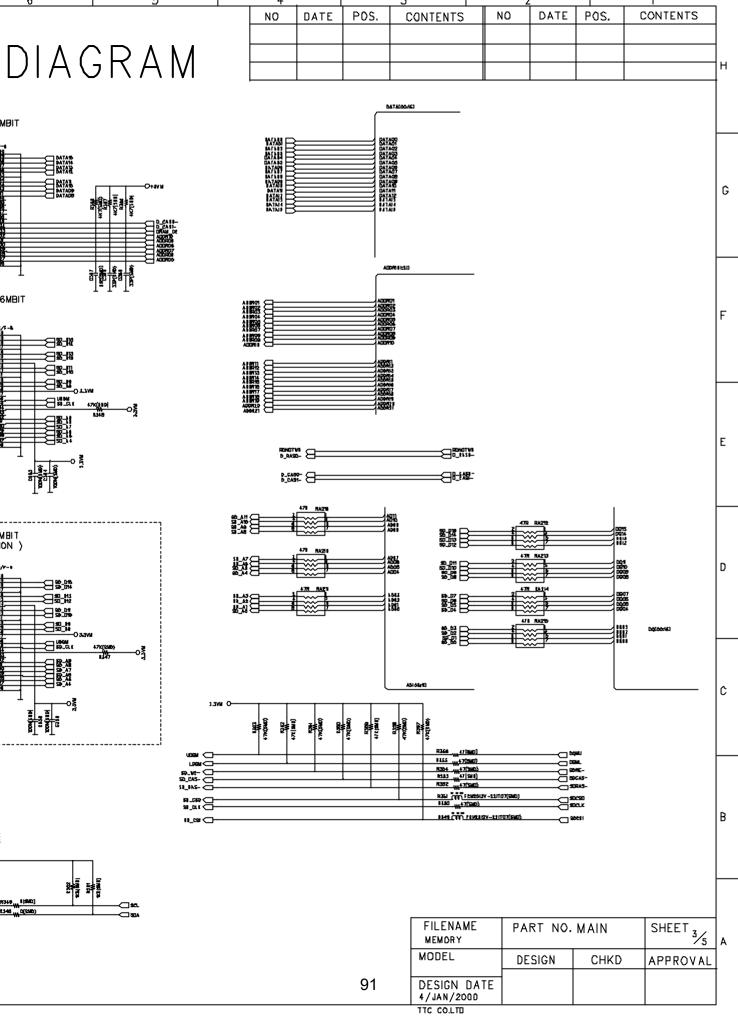


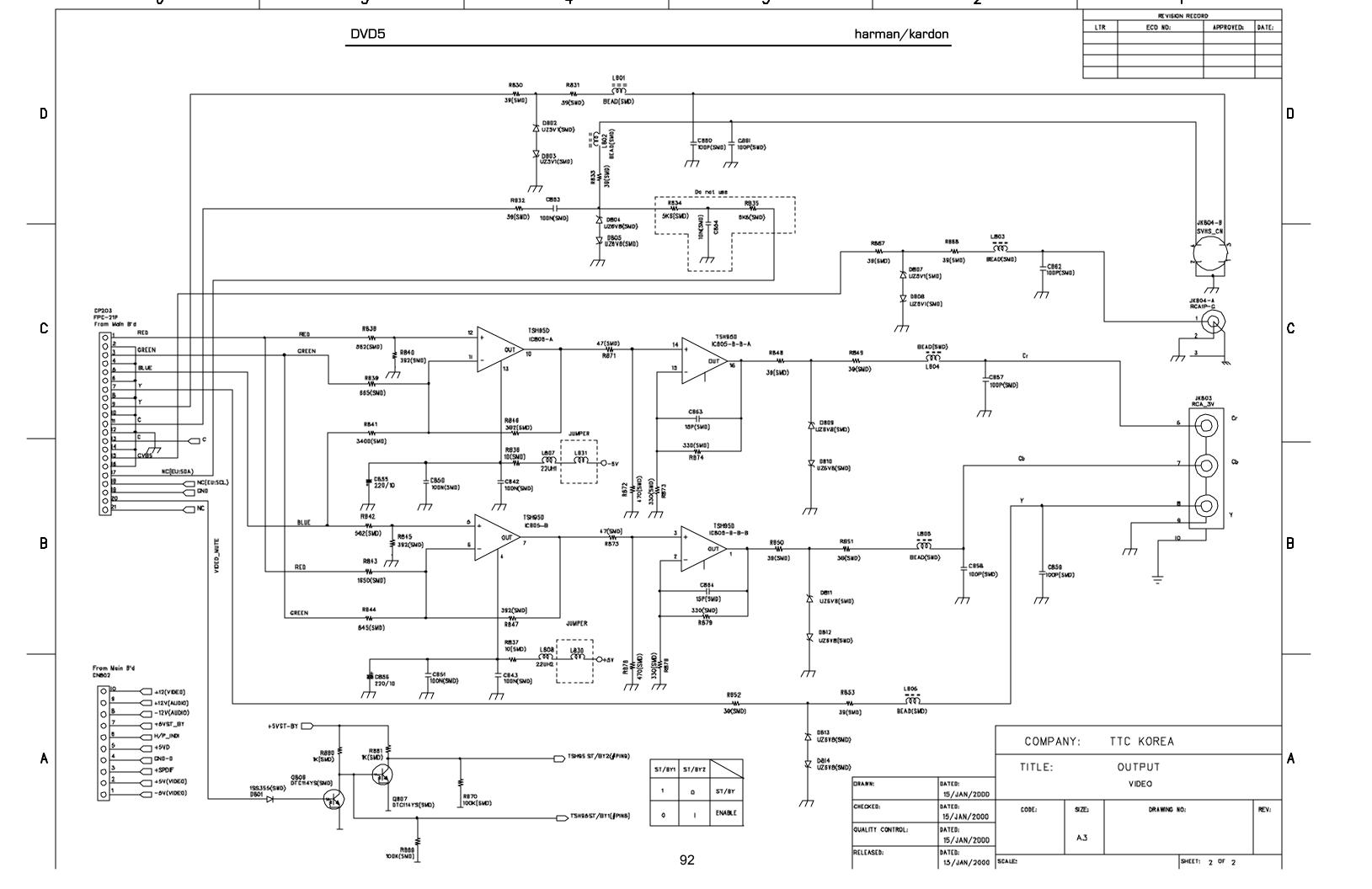


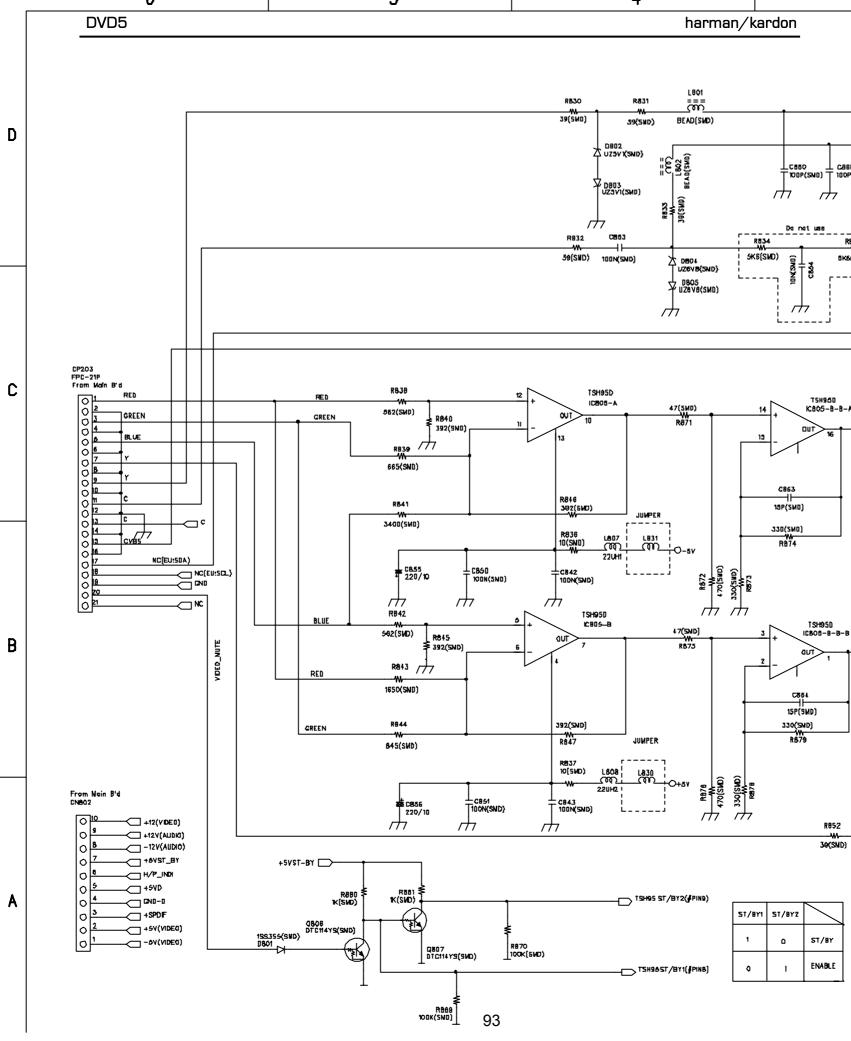


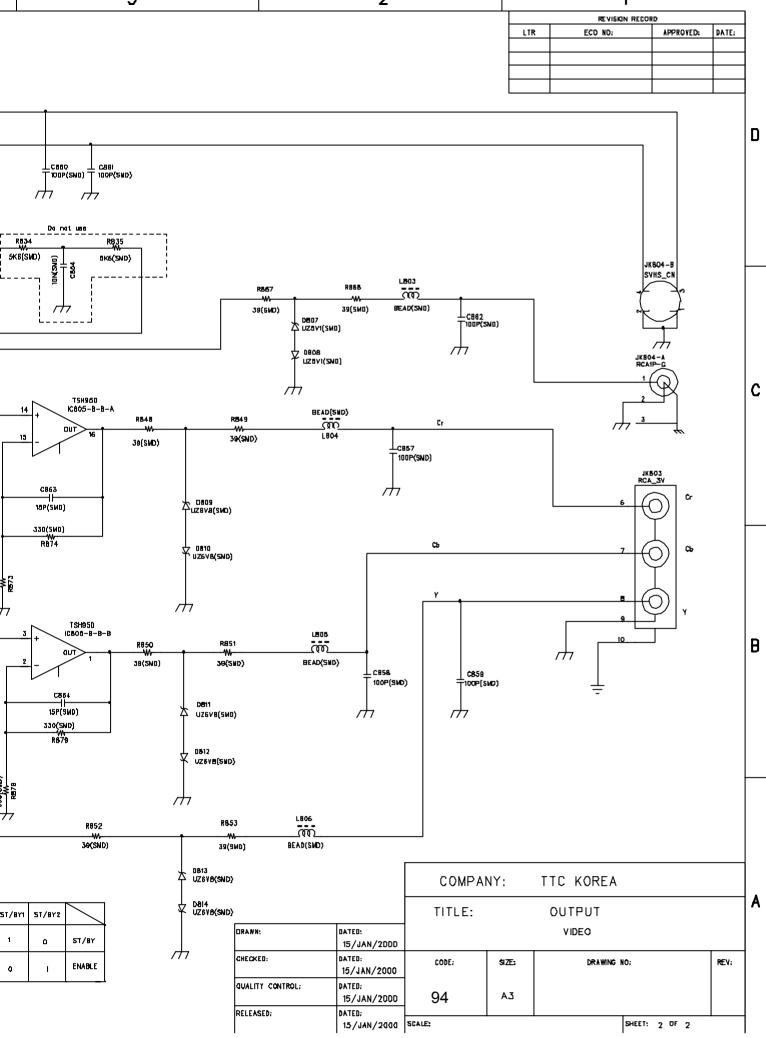


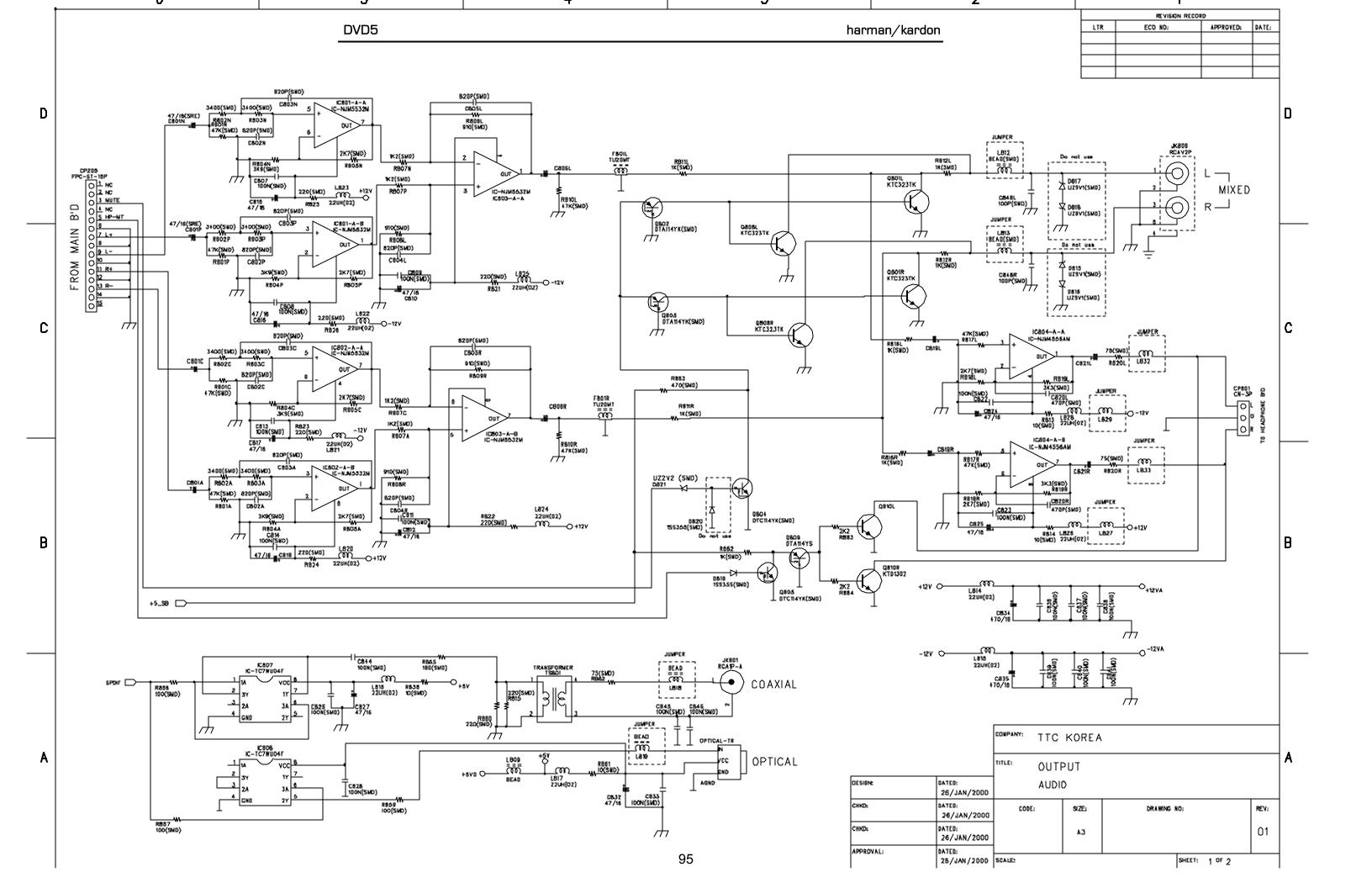
DVD5 harman/kardon SCHEMATIC Н DRAM 16MBIT FLASH BMBIT/16MBIT DATAG HATAG EKATAG G ABBITE NI 142 ABITE ABORDS A IOROS A IOROS A IOROS A IOROS A IOROS SDRAM 16MBIT F FLASH BMBIT(OPTION) /16M Ε R372 R373 ATMEL 16M 0_Ohm NC ST 16M NC 0_0hm SDRAM 16MBIT (PAL OPTION) D С 7432 RZZ2 O(BMD) В **EEPROM** 90

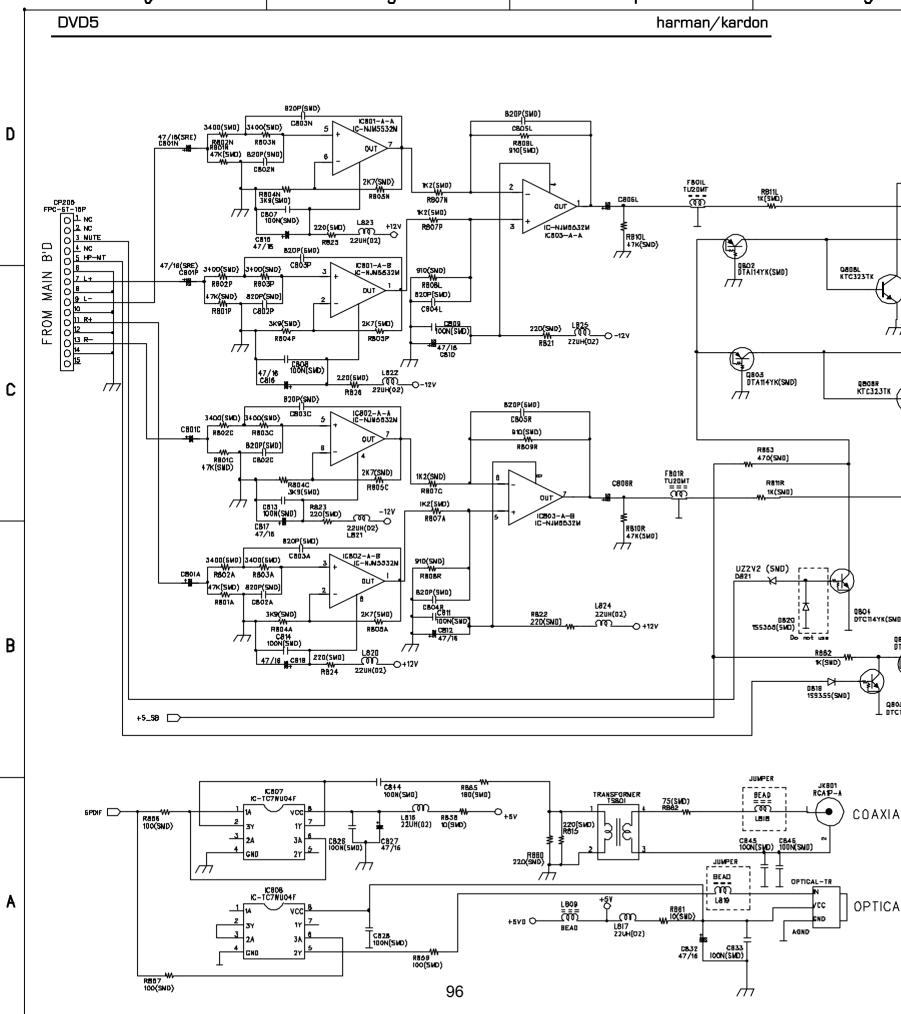


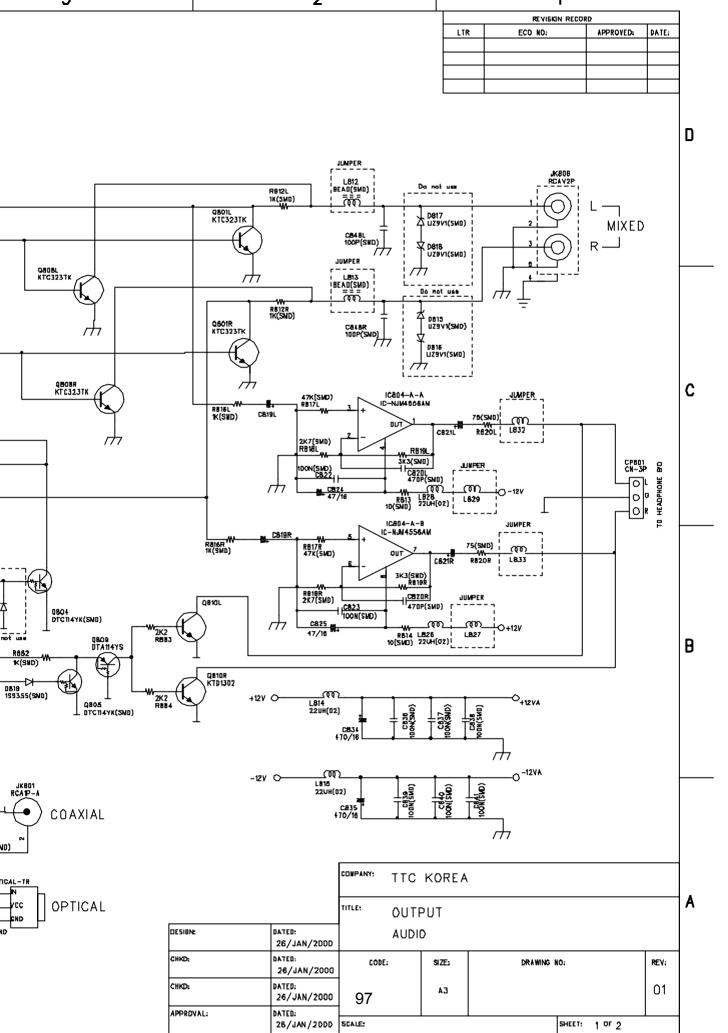


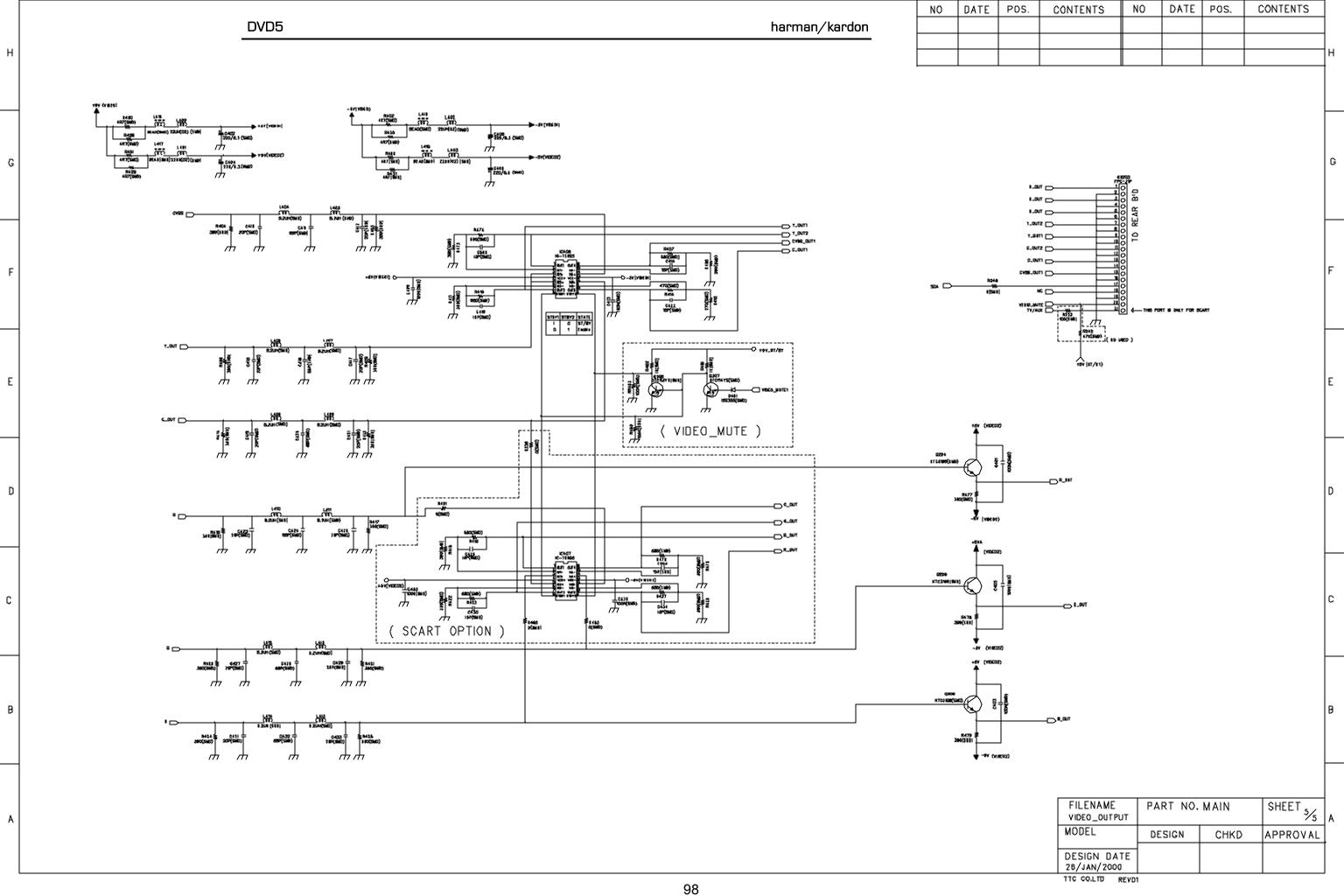












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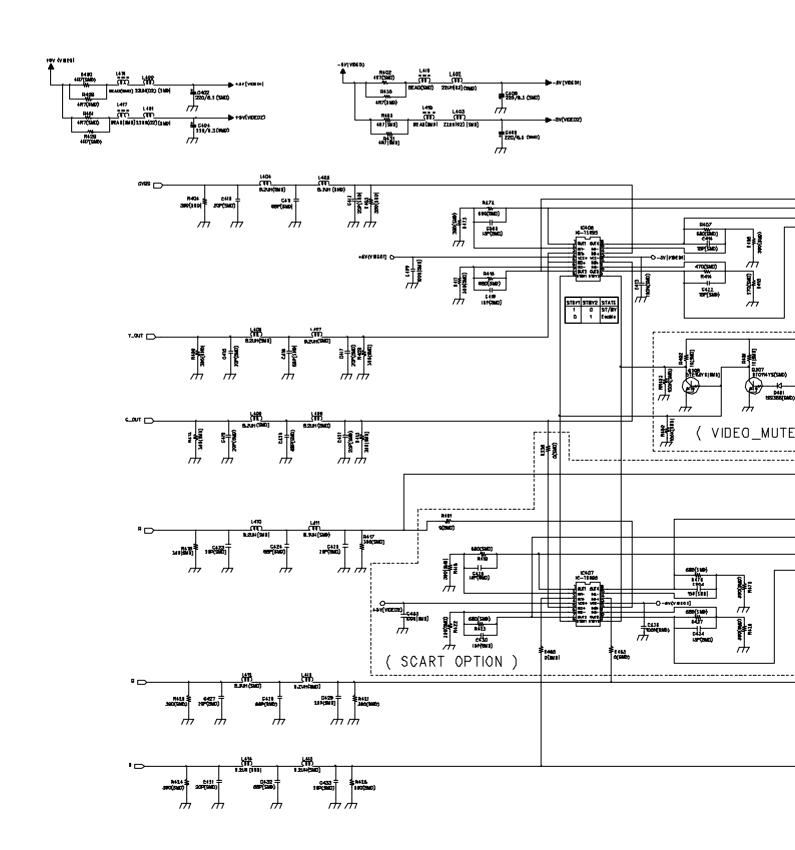
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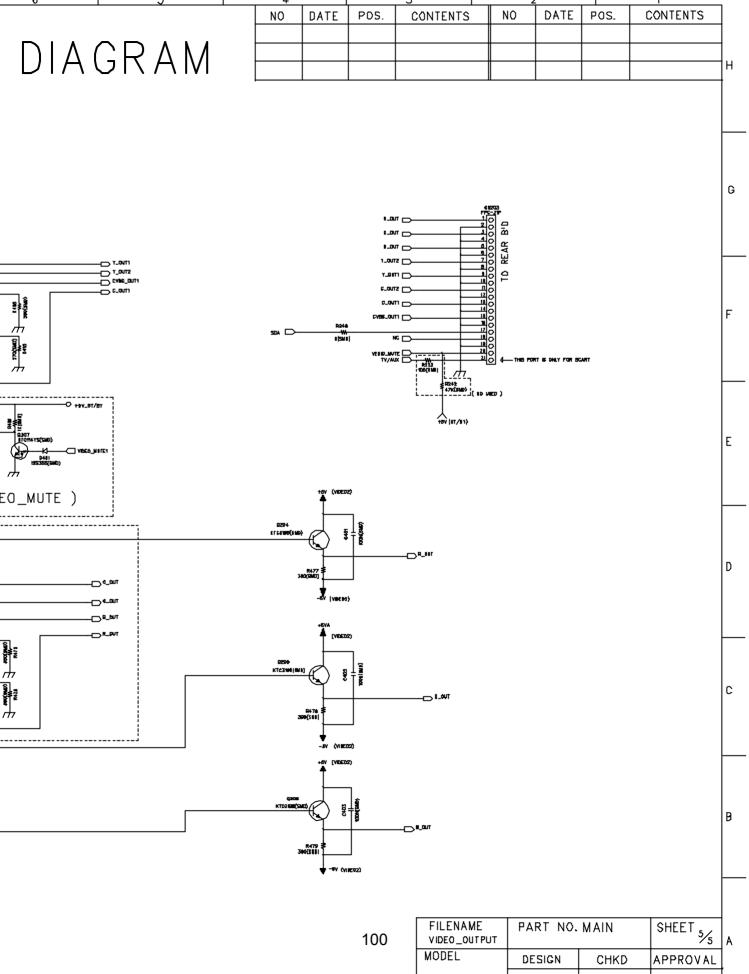
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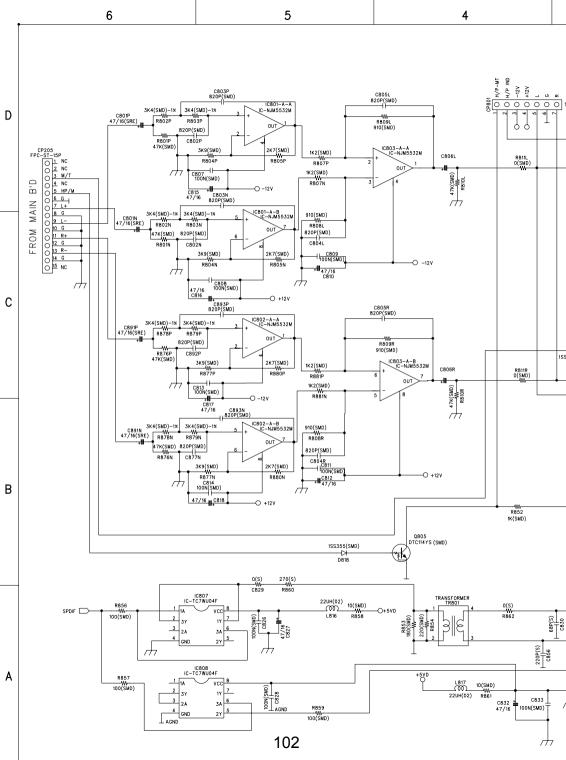
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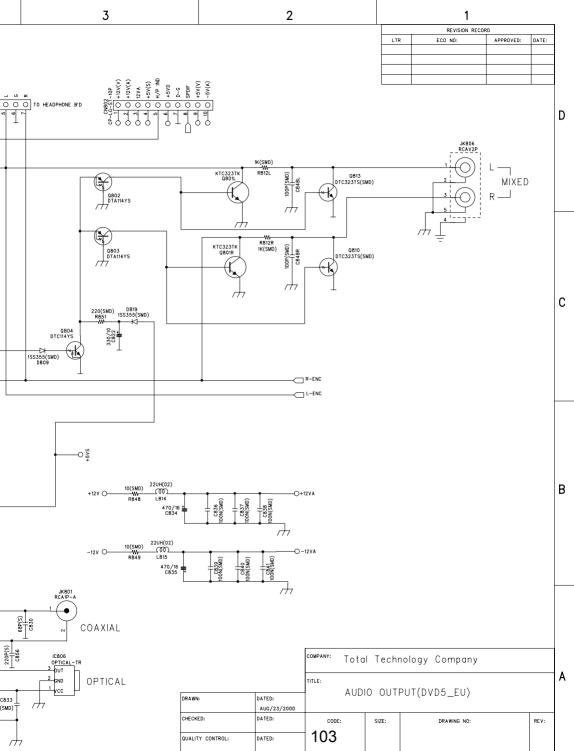
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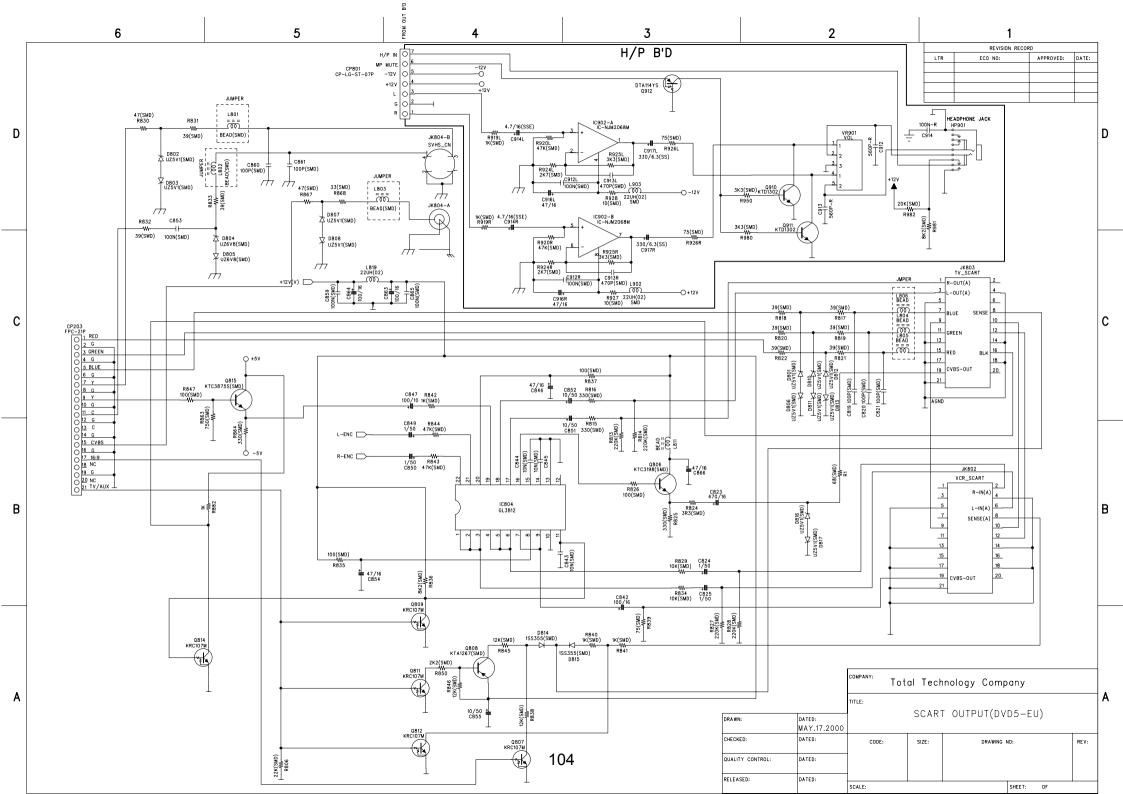
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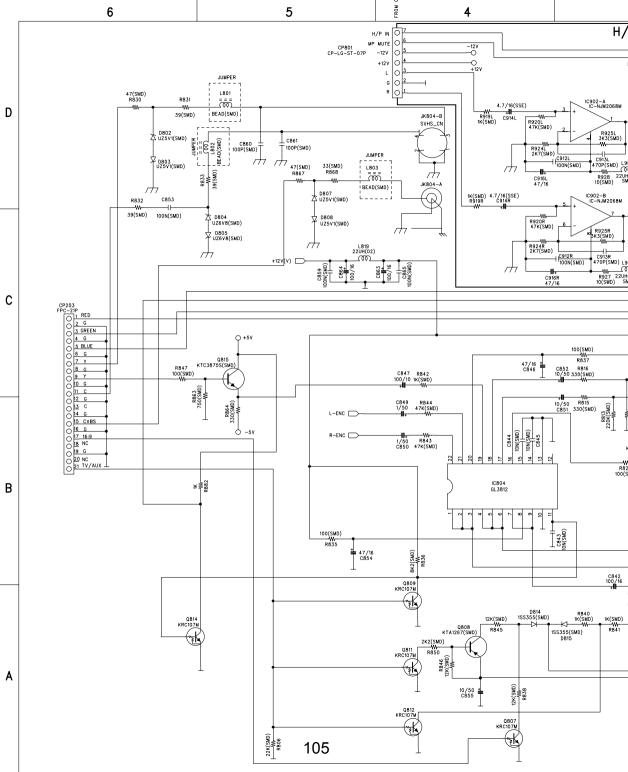


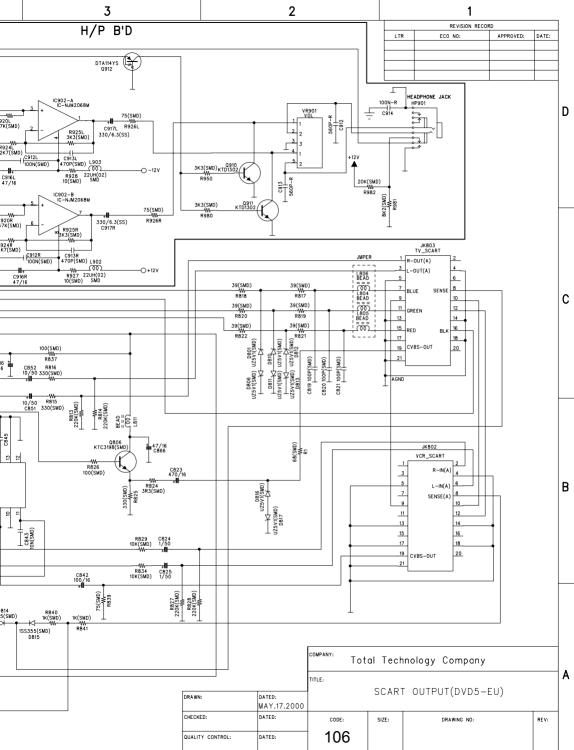


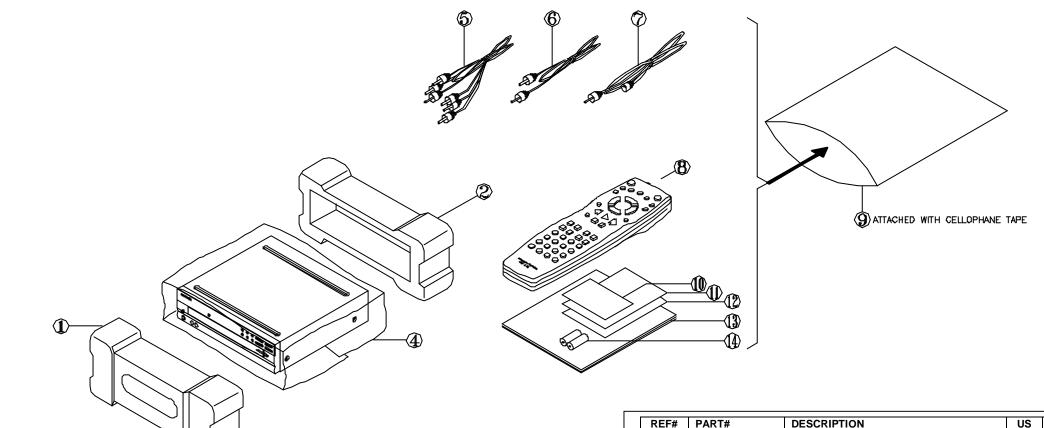












REF#	PART#	DESCRIPTION	US	EUR
1	J97200007000	FOAM, FRONT	1	1
2	J97200013000	FOAM, REAR	1	1
3	J9600008000	OUTER CARTON, DVD5 (US)	1	
	J9600008002	OUTER CARTON, DVD5 (EUR)		1
4		PROTECTIVE SHEET	1	1
5	J94330001000	3 STRAND RCA PHONO PLUG	1	1
6	J94310004000	MONO MINI-PLUG FOR IR CONNECTION	1	1
7	J94310002000	S-VIDEO CABLE	1	1
8	J54000000400	DVD5 REMOTE CONTROL	1	1
9		POLY BAG	1	2
10		SHEET	1	1
11	J90300002000	WARRANTY CARD	1	1
12		SAFETY PAPER	1	1
13	J90200003000	DVD5 OWNER'S MANUAL (US)	1	
	J90200003001	DVD5 OWNER'S MANUAL (EUR)		1
14		BATTERIES, AA, 1.5V (2)	1	1